

1974

N.Z.A.R.T. Amateur Radio Call Book



**AMATEUR
RADIO
LISTINGS**

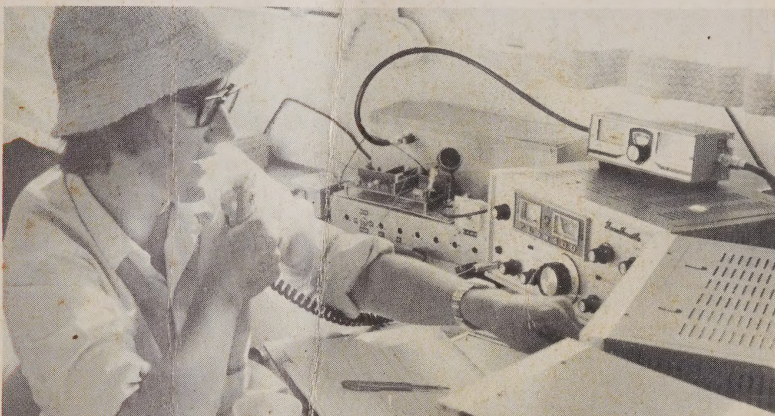
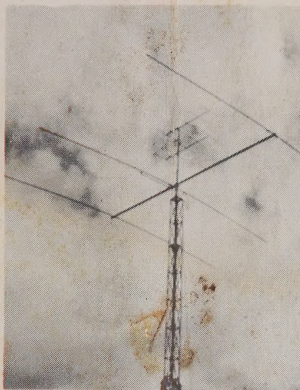
**MARINE
RADIO
INFORMATION**

**NZBC
LISTINGS**

**PRIVATE
RADIO
LISTINGS**

WORLD TIME

**PUBLISHED BY THE
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OFFICIAL CONTROL OF AMATEUR RADIO

By TOM CLARKSON, ZL2AZ,
Overseas Liaison Officer, N.Z.A.R.T.

The radio communications on which amateur activities depend constitute the *Amateur Service*, operating like other radio services under government regulations, which are framed to conform with those of other countries as agreed in the United Nations Specialised Agency responsible, that is the International Telecommunication Union (ITU). The authentic details are given in the New Zealand *Radio Regulations 1970* and the international *Radio Regulations 1959*. Some of these regulations have had parts amended. They are available from the Government Printer and the ITU Geneva, respectively. In the New Zealand regulations Amateur Service means:—

“A radiocommunication service carried on by duly authorised persons interested in radio technique by way of intercommunication and technical investigation solely with a personal aim and without pecuniary interest.”

and the international regulations have virtually the same definition, but also mention the object of self-training.

The New Zealand Post Office administers the Radio Regulations and represents this country as a member of ITU.

N.Z.A.R.T. is the New Zealand member of the International Amateur Radio Union (IARU).

The ITU with headquarters in Geneva, is the high authority for the regulation of radio. Its influence reposes in its Convention, which has the status of a treaty, and in its administrative conferences held from time to time on some or all radio services, the conclusions of which constitute the Regulations. Almost all countries participate in the conferences which due to the ascendancy of radio in world affairs are very lively meetings. (The last major one lasted six weeks and had 800 participants). All classes of radio services are in competition to ensure a place in the radio spectrum, now stretching from 10 kHz to 275 GHz, and most services wield very strong influences through the respective government representatives. There is no actual security for the Amateur Service. The technical decisions of conferences of the ITU principally follow recommendations of its International Radio Consultative Committee (CCIR), which studies among other things methods and standards for sharing parts of the spectrum, a topic affecting amateur operations. The Post Office

contributes to the work of the CCIR, putting forward the results and experiences of radio Services in this country.

Owing to the complexities of getting international agreements, and delays in the general observation of their provisions, changes in the international Radio Regulations sometimes take years to have their full effect. Conditions that might degrade amateur operations today perhaps had their origin in regulatory actions started 10 or 15 years ago. Similarly the future welfare of amateur radio needs the patient pursuit of long term policies. The World Administrative Radio Conference in 1979 will decide operating conditions for all radio services. The degree to which the amateur service as we know it can prevail will be directly dependent on the influence it can bring to bear on the forthcoming conference.

The IARU was formed in 1924 and is composed of the national amateur radio societies throughout the world. It is administered by one of its members, the American Radio Relay League, which also provides the President of IARU. Member societies in three world areas have combined in organisations to augment and assist IARU Headquarters. N.Z.A.R.T. participates in the Region III Association formed in Sydney in 1968, with present headquarters in Melbourne.

Like some other international organisations IARU enjoys “recognition” by ITU and can be admitted to conferences, with “observer” status. This is of tremendous significance for amateur interests, as it provides the possibility to contribute to, and even indirectly influence, what might be done by the official government members of conferences. IARU Headquarters, supported from the Regions, have taken advantage of these opportunities, with good effect.

There are two avenues for N.Z.A.R.T. to play its part in this field. First, to deserve and keep the goodwill of the Post Office, to continue the enlightened official attitude we have enjoyed having in the past and ensure that New Zealand influence at ITU conferences will be in the right direction. Liaison by the Communications Manager has this objective. Second, to collaborate with the societies of other countries in their efforts to have the right thing done by their *Administrations*, and to assist IARU Headquarters in any way. The Region III Association works towards these two matters. The Overseas Liaison represents N.Z.A.R.T. in these activities.

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 1HI—Douglas, M., 6 Staveley Avenue, Mt Roskill, Auckland 4.
 1HJ—Snow, A. N. H., One Tree Point, R.D., Ruakaka, Whangarei.
 1HK—Carlyle, L. G. S., 88 Bramley Drive, Papakura.
 1HL—Carrel, J. L., 64 Empire Rd., Epsom.
 1HM—Wyman, R. S., 51 Omana Rd., Papatoetoe.
 1HN—Cameron, R. H. T., "Lochiel," Glen Murray, P.B. Tuakau.
 1HO—Jarman, A. W., 770 Main Road, Whangaparaoa.
 1HP—Hamblyn, D. H., Shelly St., Leamington, Cambridge.
 1HQ—Batty, H. W., 4 Woratoh Rd., Birkenhead, Auckland, N.5.
 1HR—Cole, K. R., 100 Sutherland Road, Otumoetai, Tauranga.
 1HS—Salvin, J. B., 15 McRae Road, Mt Wellington, Auckland, 6.
 1HT—Weston, P., 149 Metcalfe Road, Ranui, Auckland 8.
 1HU—Trendall, R., 70 Beechdale Road, Pakuranga.
 1HV—Godfrey, A. G., 88 Carlisle Rd, Browns Bay, Auckland.
 1HW—Evans, G., 97 Wallace Rd., Papatoetoe.
 1HX—Heath, M. G., 21 Farnborough Crescent, Mangere.
 1HY—Brown, D., Haszard St., Waihi.
 1HZ—Larking, M. J. W., 14 Tatariki Street, Papakura.
 1IA—Pivac, I. G., 4271 Great North Rd., Henderson.
 1IB—Brown, E. A., 20 Gilmore Street, TePuke.
 1IC—Holdsworth, R., 12 Tudor Cres., Hamilton.
 1ID—Gooch, R. A., Whananaki, R.D. 3, Hikurangi.
 1IE—Skinner, G., 15 Hepper Street, New Lynn, Auckland 7.
 1IF—Wylie, J. A., Flat 3, 35 Clonbern Road, Remuera, Auckland 5.
 1IG—Monks, J., 45 Anderson Ave., Panmure, Auckland, E.2.
 1IH—Intemann, R. H. D., Flat 7, Harbour View Flats, Murawai Drive, Whakatane.

ZL—

- 1II—Green, P. G. C., 33 Jutland Road, Takapuna, Auckland 9.
 1IJ—Dunningham, N. M., 5 Kingswood Road, Papatoetoe.
 1IK—Thompson, C. C., 20 Waitaki St., Henderson.
 1IL—Hogg, B. J., 4 Kay Crescent, RNZAF Station, Hobsonville.
 1IM—Slane, J. V. G., 127 Wheturangi Road, Green Lane, Auckland 5.
 1IN—Pearce, R. M., 7 Rewi Ave., Epsom, Auckland, S.E.3.
 1IO—McNamara, T. A., 32 Galileo St., Ngaurawahia.
 1IP—Wiggins, F. V., 10 Smiths Road, Otumoetai.
 1IQ—Joseph, D. P., 20 Landscape Road, Mt. Eden, Auckland, 4.
 1IR—Douglas, L. M., 17 5th Ave., Hamilton.
 1IS—
 1IT—Hayman, G. L., 318 Jervois Road, Herne Bay, Auckland 2.
 1IU—Shields, H. A., Foster Rd., R.D. 1, Huapai.
 1IV—Irving, G. W., 29 William Souter St., Takapuna.
 1IW—McEwan, W. N., 6 Kelly Place, Howick, Auckland.
 1IX—Taylor, W. R., Flat 1, 84 Trafalgar St., Royal Oak, Auckland 6.
 1IY—Cleland, D. E., 52 Alfred St., Fairfield, Hamilton.
 1IZ—Waitomo Branch No. 55 NZART (Trustee), I. M. Howitt, Main North Rd., Otorohanga.
 1JA—Sager, J. H., 8 Renton Rd., Mt. Albert, Auckland, S.W.2.
 1JB—Piesse, G. F., 16 Cumberland Avenue, Westmere, Auckland 2.
 1JC—Hayward, F. H., 7 Shorwell St., Mt. Albert, Auckland, S.W.1.
 1JD—Colmore-Williams, D. C., 34b Sayegh St., St. Heliers, Auckland E. 1.
 1JE—Bradley, R. A. H., 105 Day Street, Hamilton.
 1JF—Hardcastle, G. L., 21 Marire Avenue, Hamilton.
 1JG—Dent, R. E., 18 McClintock Rd., Massey, Auckland 8.
 1JH—Hodson, L., 71 Riverside Road, Orewa, Auckland.
 1JI—Hodgson, C. G. B., 20 Austin Rd., Greenhithe R.D.4, Auckland.
 1JJ—Wilson, H. W., 21 McDonnell Street, Omokoroa, R.D.2, Tauranga.
 1JK—Schofield, J. R., 11 Whyte St., Claudelands, Hamilton.
 1JL—Wilson, W. O. B., 18 Charlemont Street, Hamilton.
 1JM—McIntyre, J., 37 McDowell Street, Rotorua.
 1JN—Turner, A., 140 Union St., Howick.
 1JO—Walker, N. A., Mawney Rd., Henderson, Auckland.
 1JP—Mackrell, T. P., Maropui, R.D. 3, Dargaville.
 1JQ—Allen, A. E., 35 Fairlands Ave., Avondale, Auckland, S.W.3.
 1JR—Adams, N. A., 60 Lake Rd., Devonport, Auckland, N.1.
 1JS—Jones, M. W. S., 223 St Johns Road, Remuera, Auckland 5.
 1JT—Turnwald, J. B., 29 Cliffvlew Drive, Green Bay, Auckland 7.
 1JU—Miller, E. D. N., 12 Agathis Ave., Mairangi Bay, Auckland 10.
 1JV—Bunn, H. R. W., 16 Para Street, Taumarunui.
 1JW—McLachlan, R. E., 25 Netherlton Rd., Mt. Albert, Auckland (Portable).
 1JX—Hayward, L. D., Tamaki Town Farms, East Tamaki R.D. Howick.
 1JY—Doyle, E. A. L., 41 Mangere Rd., Otahuhu, Auckland.
 1JZ—Robertson, C. S. L., Queens Rd., Panmure, Auckland, S.E.6.
 1KA—Bridger, J., 18 Fend St., Hamilton.
 1KB—Thomson, D. D., 33 Manly Esplanade, Browns Bay, Auckland.
 1KC—McCallum, K. T., 49 Lloyd Ave., Mt. Albert, Auckland, S.W.1.
 1KD—Young, L. J., 11 Wylie Street, Rotorua.
 1KE—Lockie, L. W., 8 Harcourt St., Grey Lynn, Auckland.
 1KF—Cholmondeley-Smith, D. R., 20 Sharon Rd., Waiake, Auckland 10.
 1KG—Needham, R. C., Redhill, Papakura.
 1KH—Shepherd, B. C., 26 Church St., Onerahi, Whangarei.
 1KI—Slaney, W. S., The Terrace (208), Thames.
 1KJ—Harvey, R. S., 5 Mays Rd., Te Papa, Auckland, S.E.5.
 1KK—Carter, N. A. W., 50 Victoria Avenue, Whakatane.
 1KL—Paton, E. J., Pohutukawa Rd., Whenuapai.
 1KM—Gardner, D. R., 111 Hinemoa St., Rotorua.
 1KN—McLeod, R. McD., Dinsdale Road, Frankton.
 1KO—Barlow, R., Banks Rd., Matamata.
 1KP—Sutherland, G., 79 Churchill Road, Murrays Bay, Auckland.

ZL—

1KQ—Small, J., 32 Paddington St., Glen Innes, Auckland.
 1KR—Crockett, G., 11 Aragon Ave., Glendowie, Auckland.
 1KS—Murray, S. J., Selwood Rd., Henderson.
 1KT—Sadler, G. A., 10 Davita Place, Pakuranga.
 1KU—Stewart, W. G., 4 Pupuke Rd., Birkenhead, Auckland, N.5.
 1KV—Palmer, J. E., 28 Stewart Rd., Mt. Albert, Auckland, S.W.2. (Portable).
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 1KY—Yearsley, E. S., 4 Williams Avenue, Pakuranga.
 1KZ—Gillooly, T. B., 27 Greenhaven Avenue, Papakura.
 1LA—Rolfie, R. L., 16 Stillwater Crescent, R.D. 3, Silverdale.
 1LB—Laurent, L. M., 144A Browns Rd., Manurewa.
 1LC—Bird, W. A., 35A Arthur St., Onehunga, Auckland, S.E.5.
 1LD—Williams, P. M. (Mrs), 144 Titirangi Rd., New Lynn, Auckland.
 1LE—Egan, B., 12 Island View Ter., Howick, Auckland.
 1LF—Day, H. F. W., 977 Hauraki Road, Oneroa, Waiheke Is.
 1LG—Morgan, G. S., 5 Yattendon Rd., St. Heliers, Auckland, E.1.
 1LH—Cowie, D. J., 52 Prince Regent Drive, Halfmoon Bay, Auckland.
 1LI—Bice, G. A., 604 Mt. Albert Rd., Epsom, Auckland, S.E.3.
 1LJ—Speight, R. R., 42 Ngatiawa St., Onehunga, Auckland, S.E.5.
 1LK—Wotton, I. A., Stillwater, R.D., Silverdale.
 1LL—Cook, S., 7 Segar Ave., Mt. Albert, Auckland, W.2.
 1LM—Cameron, J., 9 Cathedral Place, Parnell, Auckland 1.
 1LN—Simmons, A. L., 69 Roberts Ave. Extn., Bayswater, Auckland, N.3.
 1LO—Edelsten, W. R., 22 Seaview Rd., Tauranga.
 1LP—Parsons, E. R., 10 Bridgeman Rd., Te Awamutu.
 1LQ—Ball, W. G., 50 Hillside Rd., Otahuhu, Auckland.
 1LR—Anderson, P. C., 57 Consols Street, Waihi.
 1LS—Sherman, L. G., 11 Taumata Road, Sandringham, Auckland 3.
 1LT—Thain, R. S., Flat 4, 88 St. Luke's Rd., Mt. Albert, Auckland, S.W.1.
 1LU—Christensen, E. P., 123 Boucher Avenue, Te Puke.
 1LV—Beagley, C. T., 13 Namata Street, Onehunga, Auckland 6.
 1LW—Prinn, G. W. H., 199 Whatawhata Road, Frankton.
 1LX—Borltrop, C., 228 Taupo Rd., Taumarunui.
 1LY—
 1LZ—Mingins, C. R., Flat 4, 187 Lake Road, Takapuna, Auckland 9.
 1MA—Small, T. H., Flat 1, Waterview Rd., Papakura.
 1MB—Farley, W. F., 323 Pukehina Parade, R.D. 6, Te Puke.
 1MC—Parsons, M., 128 Bassett Rd., Remuera, Auckland, S.E.2.
 1MD—McArthur, C. G., 4 Hattaway Ave., Bucklands Beach, Auckland.
 1ME—Geard, M., Northern Wairoa Hotel, Dargaville.
 1MF—Crabtree, A. W., Martin Rd., Waihi.
 1MG—Moore, J. P., 95 Valley Road, Rocky Bay, Waiheke Is.
 1MH—Veale, A. M. O., 31 Rangitoto Avenue, Remuera, Auckland 5.
 1MI—Carter, W. L., Ongarue, R.D., Taumarunui.
 1MJ—Schwass, B. R., 6 Patterson Place, Kopeopeo, Whakatane.
 1MK—Keeley, A. L. D., 100 Shakespeare Street, Cambridge.
 1ML—Oak, R. G., 301 Kohimarama Rd., Auckland, E.1.
 1MM—Garde-Browne, M., Katikati.
 1MN—Reed, W. A., 651A Remuera Road, Remuera, Auckland.
 1MO—Spackman, I. H., 78 Waima Cres., Titirangi, Auckland.
 1MP—Poulton, G. G., 7 Rickard Place, New Lynn, Auckland, S.W.4.
 1MQ—Betson, C. W., 140 Golf Road, Green Bay, Auckland 7.
 1MR—Irwin, P. M., 29 Glendale Road, Whangarei.
 1MS—Inder, J. H., 5 Margaret Street, Tokoroa.
 1MT—Stevens, W. A. W., Flat 2, 44 Dickens Street, Grey Lynn, Auckland 2.
 1MU—Necklen, G. W., 49 Cartwrights Road, Onerahi.
 1MV—Garrard, R. C., 50 Selwyn Road, Howick.
 1MW—Huggard, B. F., 14 Turi Street, Whenuapai.
 1MX—Currie, D. J., 127 Ridge Road, Howick.
 1MY—Carss, J. R., 514 Riddell Rd., Glendowie, Auckland, E.1.
 1MZ—Stringer, S. G., 82 The Drive, Epsom, Auckland, S.E.2.

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 1NB—Hitch, G. W., 28 Wharf Rd., Te Atatu.
 1NC—
 1ND—Cobbe, D. J., C/- Mr B. S. Yerex, 21 Russell Road, Rotorua.
 1NE—Bustard, A. J., 19 Charlemont Street, Hamilton.
 1NF—Garrett, R., 13 Rockisle Road, Torbay, Auckland 10.
 1NG—Phillips, T. H., Access Road, 2 R.D., Kerikeri.
 1NH—White, N. R., Norton Rd., Otumoetai, Tauranga.
 1NI—Sharp, H. L., Miro St., Manunui, Taumarunui.
 1NJ—Ecclesfield, B. D., 1333 Cameron Road, Greerton, Tauranga.
 1NK—Mander, N. K., 38 Arundel Street, Mt Roskill, Auckland 4.
 1NL—Perkins, H. F., 28 Eaton Crescent, Tauranga.
 1NM—
 1NN—Douglas, J. W., 91 Churchill Road, Murrays Bay, Auckland 10.
 1NO—Leyden, G. G., 35 Rogers Road, Manurewa.
 1NP—Ingram, D. T., 182 Whitney St., Avondale, Auckland 7.
 1NQ—Barrell, S. J., 41 Sherwood Road, Onerahi, Whangarei.
 1NR—Edmonds, J. A., 75 Matthews Ave., Kaitia.
 1NS—Douglas, G. K., 37 Rogan Rd., Mt. Roskill, Auckland, S.3.
 1NT—Hill, B. J., 169 Rimu Street, Hamilton.
 1NU—Connolly, P. V., 90 Kiwi Road, Pt. Chevalier, Auckland W. 3.
 1NV—Page, I. T., 77 Campbell Rd., Mt. Maunganui.
 1NW—Mason, M. D., 11 Strange Grove, Otumoetai, Tauranga.
 1NX—Bayestock, S. C., 2 Fraser St., Tauranga.
 1NY—Frater, D., 8 Wayne Place, Mt Roskill, Auckland 4.
 1NZ—Smith, G. C. T., 14 Wylie Street, Rotorua.
 1OA—Jack, M. C., 12 Bongard Rd., Mission Bay, Auckland.
 1OB—Cuffe, L. D., Scotts Road, Tamaterau (P.O. Box 501, Whangarei).
 1OC—Shaw, L. S. (Mrs), Wedgewood Place, Whakatane.
 1OD—Chester, W. S., 404 Mt. Albert Road, Mount Roskill, Auckland 4.
 1OE—Roddie, J. J., 12 Cronin Place, Beachhaven, Auckland 10.
 1OF—Reid, D., Third Avenue, Orere Point, R.D. 2, Clevedon.
 1OG—Lambie, L. B., 139 Great South Road, Manurewa.
 1OH—Fairhead, A. D., Flat 1, 24 Telford Avenue, Mt Eden, Auckland 4.
 1OI—Bourne, H. K., 54 Whitehaven Road, Glendowie, Auckland 5.
 1OJ—Dowling, H. J., 52 Aurora Terrace, Hillcrest, Hamilton.
 1OK—Moir, E. V., 49 Stanley St., Whangarei.
 1OL—Walker, A. B., 3 Tasman Ave., Pt. Chevalier, Auckland, W.3.
 1OM—Windsor, K. W., 10 Galbraith Street, Mt Roskill, Auckland 4.
 1ON—Eglinton, G. K., 20 Mahoe Street, Matua, Tauranga.
 1OO—Duncan, K. J., 19 Sillary Street, Hamilton.
 1OP—White, I. H., 4 Island View Road, Rotorua.
 1OQ—
 1OR—Adams, F. H., 3 Lowery Ave., Mt. Roskill, Auckland, S.3.
 1OS—Rogers, G. V., 29 Berkley Avenue, Hamilton.
 1OT—Jacobsen, E. J., Maromaku, Bay of Islands.
 1OU—Huiler, F. X. J., 65 Morningside Road, Whangarei.
 1OV—Kirtin, F. N., 14 Dennis Ave., Manurewa.
 1OW—Burrows, J. W. L., R.D. 1, Lower Kaimai, Tauranga.
 1OX—Howarth, A., 15A Rowan Rd., Mt. Roskill, Auckland.
 1OY—Mudford, K. H., Pikonui Road, Richmond Downs, R.D. 1, Walton.
 1OZ—Mason, J. A., 58 Hutchinson Ave., New Lynn, Auckland.
 1PA—Papworth, A. G., c/o. T. W. Collins, Warkworth.
 1PB—Hanton, K. R., 1 Eglinton Avenue, Mt Eden, Auckland 3.
 1PC—Lewis, E. C., 54 Sylvan Avenue, Woodlands Park Titirangi, Auckland 7.
 1PD—Edgar, J. E. R., 26 Hamana St, Devonport, Auckland 9.
 1PE—Ward, M. R., Bournemouth Ter., Mairangi Bay, Auckland.
 1PF—Conlon, P. W., 4 Neri Crescent, Rotorua.
 1PG—Millier, H. W., 525 Devonport Rd., Tauranga.
 1PH—
 1PI—Claydon, B. T., 2 Maungakiekie Ave., Green Lane, Auckland.
 1PJ—Boulton, A. C., Ranfurly Road, Whangamata.
 1PK—King, P. D., 75 Mount View Drive, Rotorua.
 1PL—

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 1PM—Bourne, G. C., 48 Seabrook Ave., New Lynn, Auckland 7.
 1PN—Briden, W. J., 315 East Coast Road, Mairangi Bay, Auckland 10.
 1PO—
 1PP—Smithson, G. W., 94 Lewis Street, Hamilton.
 1PQ—
 1PR—Farrell, J. F., Old Taupiri Road, Ngaruawahia.
 1PS—Brown, T. G., 2 Hillston Place, Onehunga, Auckland 6.
 1PT—Twiss, D. P. L., 2 Pope St., Leamington, Cambridge.
 1PU—Nathon, I. J., Leather Street, Huntly West, Huntly.
 1PV—Gulde, N. G., 182 Sixteenth Ave., Tauranga.
 1PW—Fleming, W. D., 25 Springleigh Avenue, Mt. Albert, Auckland 3.
 1PX—Martin, H. L., 15 Taiere Ter., Onehunga, Auckland, S.E.5.
 1PY—
 1PZ—Sexton, I. M., Pukekawa R.D., Tuakau.
 1QA—Yeats, C., Whitford.
 1QB—Manakau Branch N.Z.A.R.T., (Trustee) R. W. Hassall, Victoria Rd., Papatoetoe.
 1QC—Strachan, J. M., 31A Park Road, Rotorua.
 1QD—
 1QE—James, I. D., Halls Rd., No. 2 R.D., Hamilton.
 1QF—Kirkwood, C. P., 17 Rothery Road, Manurewa.
 1QG—Morris, D. C., Woodside Rd., Henderson.
 1QH—Shaw, R. J., Maule Place, Fairfield, Hamilton.
 1QI—Gillett, P. A., 11 Argyll Rd., Tauranga.
 1QJ—O'Brien, G. W., 10 McKenzie Rd., Rotorua.
 1QK—Sutherland, C. R., 5 Rushton Ave., Otumoetai, Tauranga.
 1QL—Bork, L. J. F., 43A Mains Avenue, Whangarei.
 1QM—
 1QN—Hedges, K., 244 Titirangi Road, Auckland 7.
 1QO—Moore, R. F., Flat 7, 89 Tuarangi Rd., Grey Lynn, Auckland.
 1QP—Trylsson, N. C., 18 Thompson Street, Leamington, Cambridge.
 1QQ—Bush, G. H., 24 Rushton Ave., Otumoetai, Tauranga.
 1QR—Thomas, W. R., 74 Kitenui Avenue, Mt. Albert, Auckland 3.
 1QS—Mason, J. F., 59 Lancaster Rd., Birkdale, Auckland, N.5.
 1QT—Presswood, W. H., Dominion Rd., Kaitiaki.
 1QU—20 Squadron A.T.C., Radio Specialist Branch, (Trustee: B. H. Rowlings), 109 Bank Street, Whangarei.
 1QV—Young, L. G., Kingseat Hospital, P.B., Papakura.
 1QW—Binnie, A. G., 703 New North Rd., Mt. Albert, Auckland, S.W.2.
 1QX—Mowat, G. C., 37 Cliff Rd., St. Heliers, Auckland.
 1QY—Williams, R. G., 60 The Parade, Bucklands Beach.
 1QZ—Rhodes, M. C. L., 24 Commins Crescent, Mission Bay, Auckland 5.
 1RA—Waddell, A. S., Franklin Rd., Paparoa, Northland.
 1RB—Grant, E. W., Barry Rd., Waihi.
 1RC—Saunders, A. G., 935 Heaphy Ter., Claudelands, Hamilton.
 1RD—Stewart, T. K., 237 Birkdale Road, Birkenhead, Auckland.
 1RE—
 1RF—Matamata Amateur Radio Club (Trustee, E. C. Amon), 10 Tetley Street, Matamata.
 1RG—Rentoul, J. M., 15 McCracken Avenue, Hamilton.
 1RH—Claridge, A. R. C., Private Bag, Turangi.
 1RI—McLaughlin, J., 60 Awatere Ave., Beerescourt, Hamilton.
 1RJ—Kyle, J. V., 90 Harbour Drive, Otumoetai, Tauranga.
 1RK—Western Suburbs Radio Club (Trustee, W. S. Chester), 3000 Great North Road, New Lynn, Auckland.
 1RL—Fitchett, S. A., 5 Sunnymede Rd., Glen Innes, Auckland, E.2.
 1RM—Lowry, T. N., 24 Roseville Street, Avondale, Auckland 7.
 1RN—
 1RO—Knox, A. T., 11 Hasbury Ave., Epsom, Auckland, S.E.3.
 1RP—Bryce, D. G., Paekoa Rd., Ruatoki.
 1RQ—Blake, A., 58 McCullough Avenue, Mt Roskill, Auckland, 4.
 1RR—Ryan, D. F., 129 Cook St., Howick.
 1RS—Boggiss, R. J., 8 Silverton Road, Waihi.
 1RT—Maginnity, D., 9 Mill St., Hamilton.
 1RU—Harrison, L. R., 2 Clarendon Road, St. Heliers, Auckland 5.

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 1RW—Wilson, R. M., 78A Arney Rd., Auckland 5.
 1RX—McConchie, A. G., 86 Ivanhoe Rd., Grey Lynn, Auckland 2.
 1RY—Shimmin, R. L., 130 Union Rd., Howick, Auckland.
 1RZ—
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 1SB—Richards, P. J., No. 1 Road, Springdale, R.D., Waitoa.
 1SC—
 1SD—Gilchrist, G. W., Flat 1, 21 Evelyn Place, Northcote, Auckland 9.
 1SE—
 1SF—Trenwith, J. H. L., 31 Littlejohn St., Mt. Roskill, Auckland, S.3.
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 1SH—Adair, M. W., 41 Seavista Avenue, Birkdale, Auckland, 10.
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 1SN—King, P. G., R. D. 10, Frankton.
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 1SR—Williams, J. H., Unit 7, 14A Albert Road, Devonport.
 1SS—Skellon, D. B., 36 Mountbatten Ave., Auckland 10.
 1ST—Smith, N. E., 7 Kelywn Road, Kelston, Auckland 7.
 1SU—Arthur, D. B., 26 Woburn Street, Mangere East, Auckland.
 1SV—Hardy, N. A. T., 21 William Avenue, Manurewa.
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 1SZ—Evans, M. J., 34 Bridge St., Ootiki.
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 1TB—Churton, M. H., 15 Grassways Ave., Pakuranga.
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 1TD—Sparks, I., 34 Manhattan Heights, Glendene, Auckland, 8.
 1TE—Parry, J. A. (Mrs), c/o Mrs N. McLean, Oropi, Tauranga.
 1TF—Palmer, P. H., 161 Fraser Street, Tauranga.
 1TG—Rumming, E., Iles Rd., Rotorua.
 1TH—Stanton, A. McM., 27 Orakei Rd., Remuera, Auckland, N.4. (Portable).
 1TI—Godkin, W. P., 16 Lincoln Tce., Greerton, Tauranga.
 1TJ—Jellyman, A. G., Hoterini Street, Port Ohope.
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 1TM—Spence, K. L. J., 8 Perry Place, Hamilton.
 1TN—Barron, K. H., 13 Speight Rd., Kohimarama, Auckland.
 1TO—Potter, J. W., West Coast Rd., Oratia, Auckland.
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 1TR—Lee, C. G. A., Manoa Downs, Exelby Rd., Roto-Kauri, R.D.9, Frankton.
 1TS—Prentice, L. G., 5 Mountain View Rd., Morningside, Auckland 3.
 1TT—Roberts, R. L., 39 Kay Drive, Blockhouse Bay, Auckland.
 1TU—Johnstone, G. V. O., 17 Jacquinet Street, Te Rapa, Hamilton.
 1TV—Willis, B. G., 36 Watene Rd., Panmure, Auckland.
 1TW—Barnett, E. K., Bethlehem, R.D. 4, Tauranga.
 1TX—
 1TY—Monk, W. K. G., Matipo Ave., Rotorua.

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 IUC—
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 IUE—Williams, M. K., 13 Rossview Terrace, Hamilton.
 IUF—Mudford, N. P., 47 Victoria Street, Cambridge.
 IUG—Autridge, E., 20 Tiber Road, Milford, Auckland.
 IUH—Mathieson, V. J., 8 Sandspit Road, Waiuku.
 IUI—Cardno, I. M., 47 Ngataranga Rd., Devonport. (Portable).
 IUJ—
 IUK—
 IUL—Gilmore, G. H., Gilmore Rd., Tuhikaramoa, Hamilton.
 IUM—Chamberlain, J. H. W., Kawakawa Bay Rd., Clevedon.
 IUN—Allard, A. R., 84 Ballarat St., Ellerslie, Auckland, S.E.6.
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 IUP—Forrest, C. L., 39 Taylor Rd., Mangere, Auckland.
 IUQ—
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 IUS—Armstrong, M. A. S., 35 Queen St., Pukekohe.
 IUT—Still, W. J., No. 1 R.D., Waipu, Northland.
 IUU—Twadell, A. S., 66 Reeves Road, Pakuranga.
 IUV—Page, J. B., Bruce Avenue, Glenview, Hamilton. (Portable).
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 IUX—Hamilton Branch, NZART (Inc.) (Trustee, R. M. Mcleod) Dinsdale Street, Hamilton.
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 IVA—
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 IVC—Hall, L. J., 7 Kiwi St., Matamata.
 IVD—Cutler, J. L., 61 Mountbatten Ave., Glenfield, Auckland 10.
 IVE—Webber, H. W. B., 19 Pamela Place, Tauranga.
 IVF—Gardener, R. S., 19 Aratonga Avenue, One Tree Hill, Auckland 5.
 IVG—Bicheno, N. C., 100 Wood Bay Road, New Lynn.
 IVH—Sanne, J. H., Post Office, Onewhero.
 IVI—Rubie, A. E., 4 Citrus Avenue, Waihi Beach.
 IVJ—Page, A. E., Mt. Maunganui Rd., Mt. Maunganui.
 IVK—Papakura Branch N.Z.A.R.T. (Trustee) Mr G. S. Reed, Great South Rd., Papakura.
 IVL—Brake, L. H., R.D. 2, Warkworth.
 IVM—Arnold, R. R., 15 Hospital Road, Whangarei.
 IVN—Billing, G., 63 Smith Road, Tauranga.
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 IVP—Rule, V. J., 12 Roseneath Place, Auckland 10.
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 IVR—Maginnity, M., Flat 3, 3 Wylie Road, Papatoetoe.
 IVS—Donald, J. F., 69 Gladstone Rd., Northcote, Auckland.
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 IVX—Keane, P. M. (Rev. Father), 34 Main Highway, Ellerslie, Auckland.
 IVY—McWha, D., No. 3 R.D., Pukekohe.
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 IWE—Farrell, M., C/o M.O.W., Higgins Road, Hamilton.
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 IWG—Boric, H. V., 27 Clearey Road, Panmure, Auckland 6.
 IWH—Coe, P. H., 24 Noni Street, Turangi.
 IWI—Milam, R. E., 184 Sturgess Road, Henderson, Auckland.
 IWJ—Findlater, R. B., 40 Challinor Street, Hamilton.
 IWK—Macdonald, J. E., 171 Cook St., Howick, Auckland.
 IWL—Clarke, R. F. R., Mahuta Road, Dargaville.
 IWM—Hill, E. J., 6 Dinness Avenue, Whangarei.
 IWN—
 IWO—North Shore Branch N.Z.A.R.T. Trustee: E. M. Walker, 40A Norwood Rd., Bayswater, Auckland.

ZL—

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 IWW—Fleetwood, F., 3 Megan Avenue, Pakuranga.
 IWW—Gillanders, D. C., c/o Waitakere School, Waitakere.
 IWX—Marshall, A. T., Golf Rd., Mt. Maunganui.
 IWW—Yorke, R., 19 McLean Ave., Papatoetoe.
 IWZ—Deslandes, E. N., Rimu Rd., R.D., Oratia.
 IZN—Smith, G. C. T., 14 Wylie Street, Rotorua.
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 IAAB—Cardy, K. G., 28 City View Terrace, Birkenhead, Auckland 10.
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 IAAD—Morgan, E. L., 71 Plumley Crescent, Mangere Central.
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 IAAG—Chapman, A. S., 13 Kowhatu Rd., One Tree Hill, Auckland, S.E.4.
 IAAH—Backhouse, R. B., Ararimu Valley Road, R.D. 2, Waimauku.
 IAAI—de Jong, J. W., 34 Saffron St., Birkdale, Auckland 10.
 IAAJ—Parker, D. A., 401 Massey Road, Mangere East.
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 IAAI—Hart, J. D., 16 Corunna Ave., Parnell, Auckland.
 IAAM—Scott, P. L., 25 Chatsworth Cres., Pakuranga.
 IAAN—Hoare, J. R., 5 Paehoro Grove, Turangi.
 IAAO—Blamey, G., 173 King Edward Ave., Belmont, Auckland, N.2.
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 IAAP—Palmer, W. J., Birkdale Rd., Birkdale, Auckland, N.5.
 IAAR—Henry, R. G., 5 King St., Cambridge.
 IAAS—Litten, R. J., 142 Sandspit Rd., Howick, Auckland.
 IAAT—Swain, R. A., 37 Te Kuiti Rd., Te Kuiti.
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 IAAX—Andrews, G. S., 19 Elizabeth Street, Rotorua.
 IAAY—King, O. L., Clevedon, Auckland.
 IAAZ—Every, C. E., 12 Cornwall Rd., Papatoetoe.
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 IABB—Russell, M. C., 25 Sturdee Road, Manurewa, Auckland.
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 IABF—Rubie, E. S., 14 Fairview Rd., Glen Eden, Auckland.
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 IABH—Boreham, D. C., 35 Aldergate Rd., Mt. Roskill, Auckland.
 IABI—Maggs, A. R., 32 Potter Ave., Northcote, Auckland.
 IABJ—Fergusson, D. D., Great South Rd., Huntly North.
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 IABL—A. J. Dale, 61 Rodney Street, Wellsford, North Auckland.
 IABM—Charlton, E. D., 79 Abbotts Way, Remuera, Auckland 5.
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 IABO—Webster, W. A., 38 The Crescent, Waihi Beach.
 IABP—Dowdell, J. W., 11 Fox Street, Hamilton.
 IABQ—McGill, A. K., 15 Manapouri Place, Pakuranga.
 IABR—Skinner, R. E., Seddon Ave., Waihi.
 IABS—Upston, A. J., School House, Hangatiki, R.D., Otorohanga.
 IABT—Stead, G. M., 93 White Swan Rd., Mt. Roskill, Auckland.
 IABU—Lyall, G., 86 Tuarangi Road, Grey Lynn, Auckland 2.
 IABV—Marston, K., 131 Tautahanga Road, Turangi.
 IABW—Oldfield, A. J., 11 Collingwood Road, Waiuku.
 IABX—Dukes, J. R., 668 Beach Rd., Browns Bay, Auckland.
 IABY—Stilwell, R. F., 64 Fifth Ave., Hamilton.
 IABZ—Johnson, I. P., 26 Tarapunga Place, Tokoroa.

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 1ACC—Davies, J. H., 22 Harapaki Rd., Remuera, Auckland.
 1ACD—Hill, J. R., C/o N.Z.E.D., Private Bag, Otahuhu.
 1ACE—
 1ACF—Abbott, P. N., 24 Hillside Road, Otahuhu, Auckland.
 1ACG—Caldwell, E. G., 16 Weybridge Crescent, Glenn Innes, Auckland 6.
 1ACH—Ten Velde, R. J. M., 2 Mata Place, Tokoroa.
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 1ACJ—Turner, R. H., 7 Ottawa Street, Te Puke.
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 1ACM—Daniels, S. G., 4 Elphinstone Avenue, Mt Roskill, Auckland 4.
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 1ACO—Grusning, H. N., Beattys Rd., Pukekohe.
 1ACP—Powell, F. C., Flat 3, 1 Kingsford Road, Mt Eden, Auckland 3.
 1ACQ—
 1ACR—Ramsay, F. M., Cnr. Baker and Hazard Sts., Russell.
 1ACS—Clarke, J. K., 106 Bassett Rd., Remuera, Auckland.
 1ACT—Bowman, K. J., 144 Russell Road, Manurewa.
 1ACU—Mt. Albert Grammar School Radio Hobbies Club, Trustee: Gee, I. A., Alberton Ave., Mt. Albert, Auckland, S.W. 2.
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 1ACW—Campbell, C. W., Richards Road, Kauri, RD 5, Hukurangi.
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 1ACY—Young, H. W., 2 Wolfe St., Whangarei.
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 1ADC—Meharry, R. G., Martin Road, R.D. 1, Te Kauwhata.
 1ADD—Irvine, E. B., 26 Dudley Avenue, Huntly.
 1ADE—Duffy, E. J., 19 Princes Ave., Mt. Roskill, Auckland.
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 1ADG—
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 1ADI—Barnard, W. E., 30 Penzance Rd., Auckland 10.
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 1ADN—Piggott, J. K., 1022 East Coast Rd., Auckland.
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 1ADP—Medland, F. J., No. 1 R.D., Kumeu.
 1ADQ—Lawrence, P., 15 Gibraltar St., Howick.
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 1ADV—Crutcher, L. R., 54 Millen Ave., Pakuranga.
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 1ADX—Freeman, D. McD., Government Gardens, Rotorua.
 1ADY—Purdie, M. D., 41 Hayr Rd., Auckland 1.
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 1AFA—
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 1AFD—Osborne, R., 35 Beach Road, Tauranga.
 1AFE—Derenzy, P., Peria R.D., Matamata.
 1AFF—Reed, H. J., 97 Fairview Road, Te Awamutu.
 1AFG—O'Reilly, E. D., 1018 Great North Road, R.D. 8, Te Rapa.
 1AFH—McGeachie, T., 25 Elam Street, Parnell, Auckland.
 1AFI—Eddy, W. W., 29 Harris Rd., Panmure, Auckland, E.2. (Portable).
 1AFJ—Phillips, J. F. E., 36 Mt. Roskill Road, Auckland 4.
 1AFK—Welch, D., Titoki St., Te Atatu, Auckland.
 1AFL—Flatt, D. A., 907 Richmond St., Thames.
 1AFM—Drayton, R. W., 197 Ngatai Rd., Otumoetai, Tauranga.
 1AFN—Monks, W. J. S., 10 Alton Avenue, Northcote, Auckland 9.

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 1AFR—Johnston, I. A., 7 Ashlynn Avenue, Papatoetoe.
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 1AFZ—Wilson, J. E., 55 Halesowen Ave., Mt. Eden, Auckland, S.2.
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 1AGB—Cooper, F. J., 16 Pahiia Rd., Onehunga, Auckland, S.E.5 (portable).
 1AGC—MacDonald, J. N., 21 Pirika Street, Dargaville.
 1AGD—Millar, I. G. S., 24 Entrican Ave., Auckland 5.
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 1AGW—McDonald, D. F., 13 Abercorn Rd., Tokoroa.
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 1AID—Leng, W. K., 36 Great South Rd., Papatoetoe.
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 IAJW—Grant, R. C., 99 The Drive, Epsom, Auckland 3.
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 IAKH—Paterson, W., 329A Oceanbeach Road, Mount Maunganui.
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 IAKK—
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 IAKQ—Brant, A. E., 48 Wintere Rd., Papatoetoe.
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 IAKS—Wigley, J. N., 32 Gladstone Road, Northcote, Auckland 9.
 IAKT—Follett, M. S., 39 Edmund Road, Rotorua.

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 IALD—Smith, D. W., 111 Douglas Street, Whakatane.
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 IALF—
 IALG—Osborne, G. J., 34 Cobham Drive, Kawerau.
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 IALW—Winthrop, R. B., Woodside Bay, Waiheke Island.
 IALX—Gubb, G. K., 15A Omana Rd., Papatoetoe.
 IALY—Brown, A. R., 101 Waima Crescent, Titirangi, Auckland 8.
 IALZ—Luke, A. R., 44 Great South Rd., Papakura.
 IAMA—
 IAMB—Munt, B. F., 180 Glengary Road, Glen Eden, Auckland.
 IAMC—Nairn, E. A., 40 Royal View Rd., Auckland 8.
 IAMD—
 IAME—Crook, F. G., 12 Ascot Avenue, Devonport, Auckland 9.
 IAMF—Wright, N. L., 50 Motautau Rd., Papatoetoe.
 IAMG—Kirby, E. G., 23 Buckland Road, Auckland 3.
 IAMH—Hughes, W. J., 10 Heath Avenue, Northcote, Auckland 10.
 IAMI—Jamieson, R. A., 279 Levers Road, Otumoetai, Tauranga.
 IAMJ—Saunders, J. R., 68 Lynbrooke Avenue, Avondale.
 IAMK—Jensen, E. W., 27 Whittle Place, Auckland.
 IAML—Lawrence, L. J., 28 McCullough Ave., Mt. Roskill, Auckland. Portable.
 IAMM—Murphy, R. E., 35 Winstone Rd., Mt. Roskill, Auckland, S.3.
 IAMN—Johnston, D. A., 63 Red Hill, Papakura, Auckland.
 IAMO—Wright, R. W., 28 Chorley Ave., Massey, Henderson.
 IAMP—Hullett, E. W., 5 Endymion Place, Half Moon Bay, Howick.
 IAMQ—Hughes, A. G., 20 Cameron Rd., Hillcrest, Hamilton.
 IAMR—Davies, V. L., 772 Cameron Rd., Tauranga.
 IAMS—Long, G. T., 52 College Road, Northcote, Auckland.
 IAMT—Jensen, J. T., 619A Mt Eden Road, Mt Eden, Auckland 3.
 IAMU—
 IAMV—Paynter, J. W., Clark Road, Te Puna.
 IAMW—Heath, M. W., R.D. 2, Pukekohe.
 IAMX—Daniel, G. G. (Mrs), Highway Super Store, P. O. Box, 7 Kumeu.
 IAMY—Fletcher, I. G., 248 East Coast Road, Takapuna North, Auckland 10.
 IAMZ—Glendenning, T., 53 Pakuranga Rd., Pakuranga.
 IANA—Barker, J. R. (Mrs), 26 Lyndhurst St., Te Atatu, South.
 IANB—Dimmock, T. L., Tapeka Road, Russell.
 IANC—McMahon, R. D., 8 Levonia Street, Mt. Albert, Auckland 3.
 IAND—Turner, A. B., 7 Acmena Lane, Pakuranga.
 IANE—Gingles, J. C., R.D. 3, Hikurangi.

ZL—

IANF—Beale, W. M., 51 Manley Street, Te Aroha.
 IANG—Fraserhurst, L. F., 81 East Street, Hamilton.
 IANH—Hunt, G. K., 30 Grande Vue Road, Kawaha Point, Rotorua.
 IANI—Woskett, K. C., 151 Riddell Road, Auckland 5.
 IANJ—Ellis, J. M., Flat 3, 36 Rawhiti Road, Auckland, 6.
 IANK—Daniel, J. E., Highway Super Store, P.O. Box 7, Kumeu.
 IANL—McBurney, W. J., Flat 2, 61 Chartwell Avenue, Glenfield, Auckland 10.
 IANM—Barnett, N. M., 4 Kororo St, Northcote, Auckland 9.
 IANN—Tricker, D. A. G., Silverdale Fire Station, Main Road, Orewa.
 IANO—Birch, F. C., 33 Hoskins Avenue, Hillsborough, Auckland.
 IANP—Parsons, N. L. (Mrs), 10 Bridgman Road, Te Awamutu.
 IANQ—Herdman, R. J., 5 Sullivan St., Whakatane.
 IANR—Gibbins, E. G., 13 Cameron St., Otahuhu, Auckland, S.E.7.
 IANS—Freeman, F. C., Private Bag, Warkworth.
 IANT—Parr, J. E., Flat 2, 25 London Street, Ponsonby, Auckland 3.
 IANU—Tutton, M. L., 219 Panama Road, Otahuhu, Auckland.
 IANV—Creed, R. M., 193 Wallace Rd., Mangere Bridge, Auckland.
 IANW—Curtis, C. E., 5 Argyle Rd., Browns Bay, Auckland.
 IANX—Reid, A. A., Hubbards Road, R.D. 4, Paeroa.
 IANY—Young, G. N. L., 45 Park Road, Titirangi, Auckland 7.
 IANZ—Cole, R. S., 56A Sandwich Road, Hamilton.
 IAOA—Thorner, G. S., 18 Turaki Street, Taumarunui.
 IAOB—Harrop, G. N., 8 Waingaro Rd., Ngauruawahia.
 IAOO—Henderson, H. R. P., 11 Coates Crescent, Panmure, Auckland 6.
 IAOE—Byrnes, O. D., 31 Rosehill Drive, Papakura.
 IAOE—Cameron, R. P., 123 Kings Avenue, Tauranga.
 IAOE—King, J. L., 7 Domain Rd., Whakatane.
 IAOE—Blennerhassett, G. A., 9 Gordon Terrace, Matamata.
 IAOH—Stewart, M. I., 5 Patricia Avenue, Hamilton.
 IAOI—Trethowen, V. G., 16 Herne Bay Road, Herne Bay, Auckland 2.
 IAOJ—
 IAOK—Handisides, W. S., 117 East Coast Road, Milford, Auckland 9.
 IAOE—Jeans, W. P., 39 Rawhiti Rd, Onehunga, Auckland 6.
 IAOE—Brown, M. W., 15 Douglas Avenue, Te Awamutu.
 IAOE—Edginton, K. S., 69 East St., Hamilton.
 IAOO—Holley, W., 51 Wallace Rd., Papatoetoe.
 IAOE—Pratt, G. A., 54 Glendale Road, Whangarei.
 IAOQ—
 IAOE—Mayne, P., 37 Bank Street, Morrinsville.
 IAOE—
 IAOE—Margison, I., 111 Tarawera Terrace, St. Heliers, Auckland 5.
 IAOE—Livingston, R. P., 52A Pohutu Street, Whakatane.
 IAOV—Antwip, P., 30 Pohutukawa Road, Whenuapai.
 IAOE—
 IAOX—Ashley, I. T., 5 Willoughby Avenue, Howick.
 IAOY—Young, I., 211A St. Andrews Rd., Epsom, Auckland.
 IAOZ—Mackay, W. J., 25 Swanson Road, Henderson.
 IAPA—Hardy, R., 18 Connell St., Avondale, Auckland.
 IAPB—McDonald, R. W., 40B Tomo Street, New Lynn, Auckland, 7.
 IAPC—Chaytor, A. M., Rishworth Avenue, R.D., Silverdale.
 IAPD—McGrath, A. J., 58 Pahiia Rd., Onehunga, Auckland.
 IAPE—McDonald, D. O., 3 Rolleston Street, Thames.
 IAPF—Bateman, P. L., Lambert St., Thames.
 IAPG—Nickle, C. R., 26 Higgins Rd., Hamilton.
 IAPH—Dittmer, C. P., Station Road, R.D. 4, Hamilton.
 IAPI—Hendrie, J. G., 52 Lynden Avenue, Glenfield, Auckland, 10.
 IAPJ—Jessen, R., 156 Tamamutu St., Taupo.
 IAPK—Price, G. P., 13 Morvern Rd., Epsom, Auckland.
 IAPL—
 IAPM—Rowe, C. M., 40 Bel Air Drive, Hillsborough, Auckland.
 IAPN—Garrett, J. L., No. 3 R.D., Ohaupo.
 IAPO—Penney, G. A., Main Thames Highway, Maramarua.
 IAPP—Haysmith, C. A., 16 Garfield Road, Helensville.
 IAPQ—Gordon, W. D. G., 86 Marlborough Avenue, Glenfield, Auckland 10.
 IAPR—Roseborough, J. L., Harapepe No. 15 R.D., Te Pahu, Te Awamutu.
 IAPS—Browne, N. H., Rimu St., Kerepehi.

ZL—

IAPT—Jones, E. B., c/o. N.Z. Foundation for the Blind, 545 Parnell Rd., Auckland.
 IAPU—Read, T. I., Carters Rd., Otatū.
 IAPV—Harrison, A. F., Umawera R.D., Okaihau.
 IAPW—Marx, A. S., Waimangu, R.D. 3, Rotorua.
 IAPX—Duncan, S., 164 Tripoli Rd., Auckland.
 IAPY—Harris, L. M., Main Road, Kaeo, (C/o Post Office, Kaeo).
 IAPZ—Evans, A., Flat 4B, Harbour Court, 18 King Edward Parade, Auckland 9.
 IAOA—Hood, W. F., 71 Smith Street, Matamata.
 IAOB—Howe, A. M., 5 Philip St., Papatoetoe.
 IAOE—Gamble, N. W., 31 Omaha Rd, Remuera, Auckland 5.
 IAOE—Crossman, V. T., 38 Milton Rd., Otumoeai, Tauranga.
 IAOE—Wright, D. P., 19 Maioro St., Avondale, Auckland.
 IAOE—
 IAOE—Drinkrow, R. L., Karaka Road, Beachlands.
 IAOH—Holland, H. A., R.D., Ruakaka.
 IAOI—Davis, I. L., 3 R.D., Whangarei.
 IAOJ—Wrigley, J. S., 5 Derwent Street, Western Springs, Auckland.
 IAOE—Brown, C. D., 112 Beach Road, Onerahi, Whangarei.
 IAOE—Roberts, C. C., 70 Richardson Rd., Mt. Albert, Auckland, S.W.2.
 IAOE—Loffley, M. M., 23 Park Rd., Western Heights, Rotorua.
 IAOE—Dobbing, S. J., 37 Rifle Range Road, Frankton.
 IAOE—Gee, I. A., 5 Rhodes Ave., Mt. Albert, Auckland.
 IAOE—Parsonage, W., 31 Auckland Road, St. Heliers, Auckland.
 IAOE—Shepherd, G. W., 60 Chivalry Rd., Glenfield, Auckland.
 IAOE—Tokoroa Branch NZART (Branch 57), (Trustee) D. M. McDonald, 13 Abercorn Street, Tokoroa.
 IAOE—Sexton, J. E., Paparimu, R.D. 3, Papakura.
 IAOE—Holbrook, J. G., School of Engineering, University of Auckland, Private Bag, Auckland 1.
 IAOE—Livingston, R. P., 40 Poihaere Street, Turangi.
 IAOE—Barclay, S. N., 9 Beswick Place, Auckland 10.
 IAOE—Woodfield, A. O. J., 153 Kohimarama Road, Auckland 5.
 IAOE—The Boys' Brigade Radio Club, 8th Auckland Coy. (Trustee, A. G. Binnie), Mt. Albert Baptist Church, New North Rd., Auckland.
 IAOE—Knaggs, G. R., 31 Henderson Crescent, Tauranga.
 IAOE—Clutterbuck, E. W., 48 Brandon Road, Glen Eden, Auckland.
 IAOE—MacDonald, A. D., 82 Dinsdale Road, Hamilton.
 IAOE—Smith, P. L., 172 Chivalry Rd., Takapuna, Auckland.
 IAOE—McKenzie, C. J. C., Flat 1, 200 Chivalry Road, Auckland 10.
 IAOE—Duncan, L. E., 14 Cowley Drive, Temple View, Hamilton.
 IAOE—Pedersen, G. J., Stoney Creek Homestead, via Union Street, Opotiki.
 IAOE—Wallis, B. S., 158 Buckland Road, Mangere East.
 IAOE—Millar, R. W. K., Mullet Point, R.D. No. 2, Warkworth.
 IAOE—Harrison, R. F., 1 Thomas Rd., Mangere Central, Auckland.
 IAOE—Hayward, G. E., 132 Edgewater Drive, Pakuranga.
 IAOE—Wadey, A. P., Karaka Rd., Parakao, Whangarei.
 IAOE—Candler, J. C., 6 Ashwell Street, Kohimarama, Auckland 5.
 IAOE—Osborn, R. D. L., Grosvenor Lodge, Turanga Road, R.D. 1, Henderson, Auckland, 8.
 IAOE—Matthews, J. H. W., 40 Grande Ave., Mt. Albert, Auckland, S.W.2.
 IAOE—Hammond, R. D., Jellicoe Rd., Matamata.
 IAOE—Currie, G. W., Main Street, Ngatea.
 IAOE—Perry, T. C., James St., Raglan.
 IAOE—Dunhill, I. H., 19 Goring Road, Mt. Albert, Auckland 3.
 IAOE—Russell, A. M., 4 Milich Terrace, Te Atatu, Auckland 8.
 IAOE—
 IAOE—Thomas, A. M., 14 Clark Place, Hillcrest, Hamilton.
 IAOE—Langridge, E. R., 56 Somerset Rd., Mt. Roskill, Auckland, S.3.
 IAOE—Jones, R., Great South Road, Huntly North (P.O. Box 42).
 IAOE—Wynn, N. R., 8 Shakespeare St., Te Aroha.
 IAOE—Wright, P. W. J., 44 Fraser St., Tauranga.
 IAOE—Chandler, R. W., 36 Eastern Beach Road, Bucklands Beach.
 IAOE—Gibbs, F. I., Dunlop Road, R.D. 3, Te Puke.

ZL—

- 1ASA—Smith, B. D., Whangaparaoa Road, Tindalls Bay, R.D. 1, Silverdale.
 1ASB—Phillipson, D. W., 2 Dexter Avenue, Mt. Eden, Auckland 3.
 1ASC—McCann, C. S., 44 Duncansby Road, No. 1 R.D., Silverdale.
 1ASD—Bayley, E., 16 Woolfield Rd., Papatoetoe.
 1ASE—Howick Venturer Group Radio Club, (Trustee) D. A. Stewart, Gibraltar Street, Howick.
 1ASF—Spence, N. L., Montgomery Cres., Melville, Hamilton.
 1ASG—Sanderson, J. B., Main Road, Totara North.
 1ASH—Williamson, O. G., 489 River Rd., Hamilton.
 1ASI—Johns, M. D., 267 Riddell Rd., Glendowie, Auckland 5.
 1ASJ—Dawson, C. F., Rosamund Ter., Kawhia.
 1ASK—Jenkinson, H. D., Great South Rd., Ohaupo.
 1ASL—Rimmer, K. S., 20 Kowhai Street, Edgecumbe.
 1ASM—Kenealy, R. D., Te Kawa Rd., No. 3 R.D., Te Awamutu.
 1ASN—Adams, R. E. V., 21 Ashley Ave., Glendowie, Auckland.
 1ASO—Taumarunui Boys' Club (Inc.), Radio Hobbies Section (trustee, H. L. Sharp), Turaki Street, Taumarunui.
 1ASP—
 1ASQ—Woolrich, E. L., 66 Drake St., Howick.
 1ASR—Hartnell, G. W., 2 Burnside Terrace, Manurewa.
 1ASS—
 1AST—McMonagle, C. L., Te Rore, R.D.6, Te Awamutu.
 1ASU—Little, D. C., 32 Gretel Place, Glenfield, Auckland.
 1ASV—Phillips, J. L., 274 Seaview Road, Takapuna, Auckland 9.
 1ASW—Cambridge Amateur Radio Club (Trustee, D. H. Hamblin), Shelley St, Leamington, Cambridge.
 1ASX—White, W. A., 6 Westbourne Rd., Murrays Bay, Auckland.
 1ASY—Mogan, J. G., 6 Shearwater Rise, Rothesay Bay, Auckland.
 1ASZ—
 1ATA—Winefield, J. W., 6 Old Lake Road, Devonport, Auckland N. 1.
 1ATB—Tanner, F. V., North Harbour, Kawau Island.
 1ATC—Bridge City Contest Group (Trustee) N. M. Barnett, 4 Kororo Street, Northcote, Auckland 9.
 1ATD—Marsden, J. R. G., 56 Kimpton Rd., Papatoetoe.
 1ATE—Babich, A. T., 111 Ararui Road, Mt. Wellington, Auckland 6.
 1ATF—Sainsbury, D. G., Tanners Point, R.D. 1, Katikati.
 1ATG—Geddes, G. D. S., 50 Park Rd., Glenfield.
 1ATH—Daley, T. N. J., 22 Harbour Drive, Otumoetai, Tauranga.
 1ATI—Auckland Technical Institute Radio Club (Trustee, A. G. Godfrey), Wellesley St., Auckland.
 1ATJ—Cowell, R. E., 9 Rowan Tce., Te Atatu.
 1ATK—Harrison, G. H., Okete.
 1ATL—Park, R. J., 205 Hape Road, Thames.
 1ATM—Barrett, N., 45 Scott Avenue, Mangere Bridge Auckland W.5.
 1ATN—Hay, H. C. C., Flat 5, 2 Grove Road, Sandringham, Auckland 3.
 1ATO—Taumarunui Branch NZART (Inc.), Trustee: C. Barltrop, 228 Taupo Rd., Taumarunui.
 1ATP—Vugler, A. J., c/o. 25 Island View Rd., Western Heights, Rotorua.
 1ATQ—Salter, R. T., Brind Rd., Russell.
 1ATR—Rutledge, R. R., 3 Wylie Avenue, Auckland 10.
 1ATS—Loretz, R. K., 57 Koraha St, Remuera, Auckland 5.
 1ATT—Louisson, G. M., 2 Oakley Avenue, Hamilton.
 1ATU—Hayhurst, K. W., Mill St, Thames.
 1ATV—Hunt, S., 3 Cresta Ave., Auckland.
 1ATW—Meenagh, M. B., 23 Herbert Street, Kihikihi, Te Awamutu.
 1ATX—Vogel, H., 20 Harapoki Road, Meadowbank, Auckland.
 1ATY—Keefe, W. J. F., 222 West Tamaki Rd., Auckland, E.2.
 1ATZ—Stroobant, A. D., 103A Woodglen Road, Glen Eden, Auckland.
 1AUA—Wilson, B. E., 14 Nikau Street, New Lynn, Auckland.
 1AUB—Watkins, G. A., C/o Maungaturoto Primary School, Maungaturoto.
 1AUC—Everton, F. F., 58 Rewi St., Torbay.
 1AUD—Arthur, A. J. M. (Mrs), 26 Woburn Street, Mangere East, Auckland.
 1AUE—Walker, J. H., Manaia View Road, One Tree Point, Ruakaka.
 1AUF—Price, L. J., Flat 2, 19 Mahoe Avenue, Remuera, Auckland 5.
 1AUG—Street, G. H., 30 The Crescent, Waihi Beach.
 1AUH—Murray, N. V., Te Toro, R.D. No. 4, Waiuku.

ZL—

- 1AUI—Banks, R. S., Te Haumi Bay, Bay of Islands.
 1AUJ—Warman, R. W., Hauraki Rd., Turua.
 1AUK—
 1AUL—Thomas, R. D., 35 Royal View Rd., Te Atatu.
 1AUM—Maddock, C. N., 75A Methuen Road, Avondale, Auckland 7.
 1AUN—Inder, A. M. (Mrs), 5 Margaret Street, Tokoroa.
 1AUO—Collins, F. C., 38 Manuka St., New Lynn, Auckland.
 1AUP—Sheppard, J. T., 94 Stanley Avenue, Te Aroha.
 1AUQ—Radio Hobbies Club, Tamaki College (Trustee) Amahou Street, P.O. Box 862, Rotorua.
 1AUR—Holland, A. J., Dominion Road, Red Hill, Papakura.
 1AUS—Insley, J. F., 15 Kenley Place, Avondale, Auckland 7.
 1AUT—Brennan, P. T., 18 Thorncombe Road, Te Awamutu.
 1AUU—Ashwell, N. R., 33 Piccadilly Place, Auckland 5.
 1AUV—Sanders, J. G., 6 Gillies Ave., Claudelands, Hamilton.
 1AUW—Wooler, A. M., 21 Cambria Road, Devonport, Auckland.
 1AUX—Greaves, G. J., 44 Blake Rd., Mangere East.
 1AUZ—Burkinshaw, D. E., 40 Durham St., Te Atatu North.
 1AUZ—Hawkins, C. R., 71 Awakino Road, Te Kuiti.
 1AVA—Carter, L. E., Waimumu Rd., Massey, Henderson.
 1AVB—
 1AVC—Tribble, I. N., Martha St., Waihi.
 1AVD—Davies, D. D., 17 Blakeborough Drive, Forrest Hill, Auckland 9.
 1AVE—Brown, C. H., 23 Haughey Ave., Mt. Roskill, Auckland.
 1AVF—Bavage, L. H., Woodcocks Rd., Warkworth.
 1AVG—Rotorua Branch NZART (Trustee I. H. White), Amahou Street, Rotorua.
 1AVH—Douglas, R. J., 10 Ryan Avenue, Hamilton.
 1AVI—Kyle, B. V., 76 St. Andrews Road, Epsom, Auckland.
 1AVJ—Harper, M. J., 34 Tuatara Drive, Kamo.
 1AVK—Ruffell, W. L., 8 St. Aubyn Street, Auckland 9.
 1AVL—Manning, A. J., 7 Manapiko Street, Te Awamutu.
 1AVM—Hillary College Radio Club (Trustee: Mr W. P. Jeans), 2 Franklin Road, Otara, Auckland.
 1AVN—Rhodes, D., South Hill, Otorohanga.
 1AVO—Roberston, K. S., 16 Donegal St., Avondale, Auckland.
 1AVP—Tweedie, L. E., 21 Neal Ave., Glenfield.
 1AVQ—Auckland University Radio Club, (Trustee, B. Egan), 32 Princess Street, Auckland 2.
 1AVR—Rowe, J. P., 48 Alexander Avenue, Whakatane.
 1AVS—Burge, A. W., 5 Cordelia Place, Avondale, Auckland 7.
 1AVT—Alexander, C. J., 18 Symonds Street, Onehunga, Auckland 6.
 1AVU—Garlick, C. W., 4 James Place, Papakura.
 1AVV—McFadyen, E. J., 43 Manuka Crescent, Rotorua.
 1AVW—Wing, B. E., 11 MacMurdo Avenue, Melville, Hamilton.
 1AVX—Johnston, D. J., 25 Buckland Rd., Epsom, Auckland.
 1AVY—
 1AVZ—Rvall, B. J., 18 McKenzie St., Te Atatu South.
 1AWA—Voss, A., 28 Matipo St., Taupo.
 1AWB—Ryan, R. V., 40 Alexis Road, Mt Albert.
 1AWC—
 1AWD—Parsons, N. J., Forrest Hill Road, Henderson, R.D. 1, Auckland.
 1AWE—
 1AWF—Sexton, E. A., Paparimu R.D., Papakura.
 1AWG—Palmer, H. W., 26 Hiltan Rd., Lynmore, Rotorua.
 1AWH—Sopp, C. E., 16 Hastings Street, Te Puke.
 1AWI—
 1AWJ—Carey, R. G., Turanga-o-moana, Matamata.
 1AWK—Bates, P. M., Glen Road, Henderson.
 1AWL—Willis, R. H., 1582 Dominion Road Ext., Auckland.
 1AWM—Nathan, L. V. (Mrs), Leather Street, Huntly West, Huntly.
 1AWN—Dixon, J. G., 20 Matipo St., Taupo.
 1AWO—Pepperell, B. F., 3 Dillicard Street, Hamilton.
 1AWP—Dennison, A. S., 215 Levers Rd., Otumoetai, Tauranga.
 1AWQ—
 1AWR—Goodacre, H. W., Peacock Road, Rukuhia.
 1AWS—O'Connell, K. D., 97 Malfroy Road, Rotorua.
 1AWT—Everitt, A. B., 4 Marlborough Avenue, Hobsonville.
 1AWU—Taylor, R. J., 4 Arran Place, Tokoroa.
 1AWV—Vause, W. S., 8 Nixon Rd., Titirangi, Auckland 7.
 1AWW—Welford, G. H., 30 Churchill Ave., Manurewa.
 1AWX—Jillings, M. A., 6 Ranfurly Rd., Epsom, Auckland.
 1AWY—Dugmore, K. F., 5 Fairview Place, Te Puke.
 1AWZ—Leitch, T. G., 32 David Rd., Morrinsville.
 1AXA—

ZL—

1AXB—Murdoch, P. J., 181 Glengarry Road, Glen Eden, Auckland 7.
 1AXC—Chapman, C. B., 31 Arimu Road, Papakura.
 1AXD—Green, K. J., 52 Tuatara Drive, Kamo.
 1AXE—Spackman, M. L., The Vicarage, Clevedon.
 1AXF—Thompson, C. I. N., 12 Old Quarry Road, Rotorua.
 1AXG—Woods, M. H., 22 Tainui Street, Sherwood, Whangarei.
 1AXH—1st Whenuapai Air Scout Group Radio Club (Trustee, J. W. Hannaford), 12 Waimarie Rd., Whenuapai.
 1AXI—Foote, J. R., Dip Road, Kamo.
 1AXJ—Bateman, G., 9 Neal Avenue, Glenfield, Auckland 10.
 1AXK—Edgar, L. D., Puriri Rd., Whenuapai, R.D. 2, Kumeu.
 1AXL—
 1AXM—Cook, K. J., 105 Forrest Hill Road, Forest Hill, Auckland 10.
 1AXN—Anderton, T. E., 734 Massey Rd., Mangere Central, S.E.S.
 1AXO—Rogers, K. J., 36 Fernleigh Ave., Epsom, Auckland 3.
 1AXP—Voss, F. (Mrs), 28 Matipo Street, Taupo.
 1AXQ—Hardwick, D. B., Wardville Road, Waharoa.
 1AXR—Rodgers, L. F. C., 45 Third View Avenue, Beachlands.
 1AXS—Bonniface, R. A., 19 Kairanga St., Mangere East.
 1AXT—De Luca, B. C., Flat 2, 98A Te Atatu Road, Te Atatu South, Auckland 8.
 1AXU—
 1AXV—Richardson, K. P., 50 Wood St., Papakura.
 1AXW—Craig, S. E., 291 Rangatira Road, Birkenhead, Auckland 10.
 1AXX—Smith, R. I., 13 Tagor St., Glen Eden, Auckland 7.
 1AXY—Hjorring, B. G., 48 Smythe Road, Henderson.
 1AXZ—1st Devonport Scout Group Venturer Unit Radio Club (Trustee, T. F. Turnwald), Allenby Ave., Devonport, Auckland.
 1AYA—Raven, L. F., 156 Glamorgan Drive, Torbay, Auckland 10.
 1AYB—Bowkett, J. A., Schoolhouse, Ngongotaha.
 1AYC—Christie, D. A., 18 Peter Street, Castor Bay, Auckland.
 1AYD—Thomson, J. D., 58 Ngapuhi Rd., Remuera, Auckland.
 1AYE—
 1AYF—Price, D. A., R.D.2, Papakura.
 1AYG—Chatteris, P. L., 63 Maskell Street, Auckland 5.
 1AYH—Wallace, A. D., Main Street, P.O. Box 56, Waimana.
 1AYI—McKellow, D. E., R.O. Residence 5, Musick Point, Bucklands Beach.
 1AYJ—Jones, E., 3 Churchill Street, Whakatane.
 1AYK—Mannion, M. H., 15 Dickey Street, Avondale, Auckland.
 1AYL—Hancock, P. R., 59 Birch Street, Taupo.
 1AYM—Tennant, C. H., 4 Brent Place, Manurewa.
 1AYN—Lowe, R. A., 53 Valley Rd., Papakura.
 1AYO—Seaman, H. O., 86 Taylor St., Blockhouse Bay, Auckland.
 1AYP—Tweedie, L. E., 5 Quebec Road, Milford, Auckland 9.
 1AYQ—Mairdona, J. D., 17 McKenzie Road, Owata, Rotorua.
 1AYR—Hylands, R. J., 27 Tui Glen Road, Birkenhead, Auckland 10.
 1AYS—Stewart, R. W., 249 Penrose Road, Panmure, Auckland 6.
 1AYT—Tritt, M. P., 206 Malfroy Road, Rotorua.
 1AYU—Thorley, A., 50 Cosgrove Rd., Papakura.
 1AYV—
 1AYW—Speedy, S. L., 3 O'Neills Ave., Takapuna, Auckland.
 1AYX—McLeod, M. N. A., 3 Nikau Street, Henderson.
 1AYY—Jowsey, R. A., Flat 5, 87 Station Road, Papatoetoe.
 1AYZ—Natzke, R. L., P.O. Box 87, Te Awamutu.
 1AZA—Campbell, R. P., 9 Navarre Rd., Glendowie, Auckland.
 1AZB—Young, R. D., 40 Ward St., Te Kuiti.
 1AZC—Gray, D. M., 15 South Lynn Road, Titirangi, Auckland 7.
 1AZD—Mayne, S. H., Mould St., Mangonui.
 1AZE—Nearey, G. C., 82 Arimu Road, Papakura Military Camp.
 1AZF—Powell, W. L., Silverhill Road, Te Hana.
 1AZG—Greene, R. E., Hyde Road, Clevedon, Auckland.
 1AZH—Stephens, R. D., 43 Tui Street, Taupo.
 1AZI—Hirst, J. R., 25 Hinemoa Street, Birkenhead, Auckland.

ZL—

1AZJ—Sutherland, S. F., 15 Summerville Street, Kaitiaki.
 1AZK—Keucke, F. H., 45 Weston Ave., Mt. Albert, Auckland.
 1AZL—Greenhalgh, R. W., "Glenburn", Moerangi, R.D., Te Mata.
 1AZM—Addison, R. R., 14 Clifton Road, Whakatane.
 1AZN—Fisher, J. W., 38 Sylvan Avenue, Woodlands Park, Auckland 7.
 1AZO—Waihi College Radio Club, Waihi College, Waihi (Trustee, J. K. Harvey).
 1AZP—
 1AZQ—McKenzie, H. W., 23C Ford Avenue, Kamo, Whangarei.
 1AZR—Morgan, J. A., 28 Pulham Road, Warkworth.
 1AZS—Sweden, J., Speddings Road, R.D. 2, Hobsonville.
 1AZT—Clare, I. K., 31 O'Halloran Rd., Howick, Auckland.
 1AZU—Nelson, B. C., 59 Percy St., Warkworth.
 1AZV—Bodycote, W. N., 23 Halswell St., Mangere East.
 1AZW—Zajonskowski, K. L., 6 Stanley Ave., Te Aroha.
 1AZX—Armstrong, J. B., 10 Normanby Street, Kawerau.
 1AZY—Green, R. G., 98 Albert St., Hamilton.
 1AZZ—Darrall, P. G., 11 Irene Crescent, Hamilton.
 1BAA—St. Kentigern College Radio Club (Trustee J. K. Clarke), Pakuranga.
 1BAB—Cooper, W. G., 41A Kelvin Rd., Papakura.
 1BAC—Hilliard, S. W., 33A Lake Rd, Northcote, Auckland 9.
 1BAD—Knowles, R. E., Taraire Drive, Drury Hills, Drury.
 1BAE—Waihi Branch N.Z.A.R.T., (Trustee) O. J. Morgan, 1 Waitete Road, Waihi.
 1BAF—Woolf, H. L., 8 Rawhiti Road, Onehunga, Auckland.
 1BAG—Gibbins, D. B., 369 Cobham Drive, Hamilton.
 1BAH—Bromley, J. H., 61 Kea Street, Rotorua.
 1BAI—Scollum, B. D., No. 1 R.D., Matakana.
 1BAJ—
 1BAK—Burrage, D. H., 11 Bannister Place, Avondale, Auckland.
 1BAL—Ball, T., Second Avenue, Waihou.
 1BAM—Milligan, J. W., 88 Tiraumea Drive, Pakuranga.
 1BAN—Hampton, D. G., House No. 44, NZED, Whakamaru.
 1BAO—Martin, H. R., 18 Benlora Place, Mangere.
 1BAP—Parr, J. B., 9 McCracken Road, Mt. Wellington, Auckland 6.
 1BAQ—Donkin, F. R., 404 Brown St., Thames.
 1BAR—Martensen, J. E., 34 Lawrence St., Auckland.
 1BAS—Morgan, O. J., 1 Waitete Rd., Waihi.
 1BAT—St. Albans Scout Group Radio Club (Trustee) N. J. Volkner, 132 Grange Road, Mt. Eden, Auckland.
 1BAU—Bakulich, J. V. M., Mt. Wesley Rd., Dargaville.
 1BAV—Vial, S. B., 159 Kowhai Road, Mairangi Bay, Auckland 10.
 1BAW—Allardice, M. H., 6 Willow Way, Pakuranga, Auckland.
 1BAX—Slaven, C. P., 19 Gilmore Street, Waihi.
 1BAY—Bodycote, H. L., 23 Halswell St., Mangere East.
 1BAZ—Smith, B. D., 22 Nixon Street, Hamilton East.
 1BBA—
 1BBB—
 1BBC—Coleman, P. J., 28 Tahurangi Street, Kamo.
 1BBD—Annear, D.G., 175 St. Johns Road, Remuera, Auckland 5.
 1BBE—Little, A. J., Hodderville Boys Home, R.D. 1, Putaruru.
 1BBF—Lusk, R. I. B., 54 South Titirangi Road, Titirangi, Auckland.
 1BBG—
 1BBH—Hannaford, J. W., Waimarie Road, Whenuapai, Auckland.
 1BBI—Wilson, I. I., 100 Victoria Ave., Remuera, Auckland.
 1BBJ—Ede, R. P. A., 42 Baberton Rd., Tokoroa.
 1BBK—Hoult, G. E., Queen Elizabeth Hospital, Rotorua.
 1BBL—
 1BBM—Ashton, H. G., 1 Boundary Rd., Henderson.
 1BBN—Parr, W. R. (Mrs), Paterangi Rd., Te Awamutu.
 1BBO—Mahurangi College Radio Club (Trustee, L. H. Bavage), Warkworth.
 1BBP—Peace, K. I., 71 Rolleston Street, Kihikihi.
 1BBQ—Brabec, M. W., 20 Fitzherbert Street, Putaruru.
 1BBR—Chamberlain, P. C., Kawakawa Bay Road, No. 2 R.D., Clevedon.
 1BBS—Kiipatrick, G., 48A Polygon Road, St. Heliers, Auckland 5.
 1BBT—Kings College Radio Club (Trustee, W. T. Power), Kings College, Middlemore, Auckland.
 1BBU—Medley, E. J., 20 Henderson Crescent, Tauranga.

ZL—

1BBV—Scheel, K. E., 17 Bentleigh Avenue, Avondale, Auckland 7.
 1BBW—Williams, K., Taurikura.
 1BBX—Matamata College Radio Club (Trustee: V. A. Lewis), Matamata.
 1BBY—Brown, F. W. S., 241 Queens Rd., Panmure, Auckland.
 1BBZ—Holt, R., 17 Matai St., Waiuku.
 1BCA—Batkin, B. W., Batkin Road, Hunua, R.D. 4, Papakura.
 1BCB—Lewis, K. J., 123 Wheturangi Road, Greenlane, Auckland 5.
 1BCC—Crandall, S., 20 Princess Street, Waihi.
 1BCD—Roberts, A. R., 33 Elliott Cres., Rotorua.
 1BCE—Eckett, J. A. B., 23 Pinedale Place, Henderson, Auckland.
 1BCF—Kendrick, F. S., Pyes Pa Rd., R.D. 3, Tauranga.
 1BCG—
 1BCH—Davis, B. C. B., 115 Great South Road, Manurewa.
 1BCI—Sinclair, N. S., 6 Sharyn Place, Tauranga.
 1BCJ—
 1BCK—Braddock, F. W., 18 Masters Ave., Hillcrest, Hamilton.
 1BCL—Lewis, V. A., 38B Burwood Rd., Matamata.
 1BCM—Mayhill, F. A., 24 Manson Street, Tauranga.
 1BCN—McCarthy, P. D., 92 Tirakau Drive, Tauranga.
 1BCO—Taupo Branch N.Z.A.R.T., Trustee, J. G. Dixon, Taupo County Depot, Spa Rd., Taupo.
 1BCP—Peters, S. J., 43 Wilsher Cres., Henderson, Auckland.
 1BCQ—
 1BCR—Dodd, P. B., C/o ANZ Bank, 19-21 St. George St., Papatoetoe.
 1BCS—Cole, B. L., 1 Bushland Avenue, Papakura.
 1BCT—Kelston Boys' High School Radio Club—(Trustee) J. W. Goodsir, Archibald Road, Kelston, Auckland.
 1BCU—Boyd, B. F., 34 Carrington Street, Hamilton.
 1BCV—White, J. W., 10 Waitawa Road, Whangarei.
 1BCW—Webber, H. C., Ngataipua Road, Kopurehi, R.D. 1, Turua.
 1BCX—Fasher, N. C., 158 Williams St., Cambridge.
 1BCY—McMillan, D. L., 371 Dey Street, Hamilton.
 1BCZ—Drummond, D. T., 5 Griffiths Place, Hamilton.
 1BDA—Wright, C. C., 24 King Edward Avenue, Bayswater, Auckland 9.
 1BDB—Travena, M. R., 226 Great South Road, Manurewa.
 1BDC—Brown, N. G., 19 Fitzherbert Street, Putaruru.
 1BDD—Bowman, M. J., 3 Crichton Tce., Takapuna, Auckland 9.
 1BDE—Visser, P., 4 Kauri Crescent, Matamata.
 1BDF—Petherick, G. R., 84 Aroha Avenue, Morningside, Auckland 3.
 1BDG—Mogford, F. L., 74 Buchanan Street, Opatiki.
 1BDH—Latham, G. W., 5A Halberg Crescent, Whakatane.
 1BDI—Draper, N., 61 Churchill Road, Murays Bay, Auckland 10.
 1BDJ—Monk, E. C. (Mrs), Matipo Ave., Rotorua.
 1BDK—Jacobson, C. J., Main Highway, Maunu 9 R.D., Whangarei.
 1BDL—
 1BDM—Hansen, A. F., 8 Punga Grove, Whangarei.
 1BDN—McGivern, J. A., 11 Marlowe Rd., Avondale, Auckland.
 1BDO—Mancer, E. S., 4 Poto St., Henderson, Auckland.
 1BDP—James, J. R., Flat 3, 106 Tuwharetoa Street, Taupo.
 1BDQ—Hunter, I. M., 44 Bleakhouse Road, Howick.
 1BDR—Boucher, P., 7 Ellerslie Park Road, Ellerslie, Auckland 5.
 1BDS—Soufflot, N. F. M., 4 R.D., Albany.
 1BDT—Chitty, M. C., 726 East Coast Road, Browns Bay, Auckland 10.
 1BDU—Cotton, R., 39 Andrew Rd., Howick.
 1BDV—
 1BDW—Brown-Douglas, F. J., 14 Cross Street, Taumarunui.
 1BDX—James, R. A., 55 Hatepe Ave., Taupo.
 1BDY—Seakins, J. M., 99 Exmouth Road, Auckland 9.
 1BDZ—Hoban, C. J. (Mrs), No. 4 R.D., Te Awamutu.
 1BEA—Miller, E. R., 4 Kamah Road, Rotorua.
 1BEB—Williams, P., Kaihere R.D., Ngatea.
 1BEC—Cobham, W. T. R., 24 Pukeko Street, Rotorua.
 1BED—Patchett, P. B., 88 Astley Avenue, New Lynn, Auckland 7.
 1BEE—Takapuna Grammar School Radio Club (Trustee: T. F. Turnwald), Lake Road, Takapuna.

ZL—

1BEF—Fitzgerald, B. E., 39 Mount View Rd., Melville, Hamilton.
 1BEG—McFarlane, G. M., 3 Tui Place, Tokoroa.
 1BEH—Bertram, M. B., 11 Green Lane East, Remuera, Auckland.
 1BEI—Ellis, M. R., 133 Douglas Street, Whakatane.
 1BEJ—McCabe, B. R., 400 West Coast Rd., Glen Eden, Auckland.
 1BEK—McTurk, P. T. R., 38 Silverton Road, Waihi.
 1BEL—Lees, B., 118 Melrose Road, Hillsborough, Auckland 4.
 1BEM—Cartwright, J. F. L., 17 Jaemont Ave., Te Atatu.
 1BEN—Robertson, I. C., 17 De Vere Crescent, Hamilton.
 1BEO—Witthford, P. S., 96 Old Onerahi Road, Onerahi, Whangarei.
 1BEP—
 1BEQ—Ogden, R. H., Coopers Beach, R.D. 3, Kaitia.
 1BER—Wood, G. J., Athenree, R.D. 1, Katikati.
 1BES—Barnes, J. C., Main Rd., Kumeu.
 1BET—
 1BEU—
 1BEV—McDavitt, F. J., Luckens Rd., Hobsonville, Auckland.
 1BEW—Dodds, P. B., Waimarie Road, Whenuapai Village, Kumeu.
 1BEX—
 1BEY—Smart, J. B., 157 Rodney Street, Wellsford.
 1BEZ—Auckland Regional Authority, Civil Defence Division Radio Club (Trustee) G. G. Poulton, "The Bunker," Epsom Avenue, Auckland.
 1BFA—Butcher, P. D., 168 Raumanga Valley Road, Whangarei.
 1BFB—Walker, I. D., 51 Caronia Crescent, Mt. Roskill, Auckland.
 1BFC—Hellyar, J. S., Apt. 1, 205 Tamaki Drive, Auckland 5.
 1BFD—Potts, G. C., Flat 8, 74 Walmesly Road, Otahuhu, Auckland 6.
 1BFE—Harland, J. C., 8 Aotea Crescent, Tokoroa.
 1BFF—McGrath, R., 4 Bank Street, Birkenhead, Auckland 10.
 1BFG—Cooper, E. H., 224 Great South Road, Greenlane, Auckland.
 1BFH—Perkins, I. M., Te Poi, R.D. 3, Matamata.
 1BFI—Liley, E. J., 68 Houchens Road, Hamilton.
 1BFJ—Adams, L. B., 32 Elizabeth Street, Matamata.
 1BFK—Frakes, M. C., 21 Beach Road, Howick, Auckland.
 1BFL—
 1BFM—Andrews, T. I., 17 Grey Street, Hamilton.
 1BFN—
 1BFO—
 1BFP—Gaeth, O. J., 14A Brinkley Road, Otumoetai, Tauranga.
 1BFQ—Bailey, K. W., C/o A. J. Nixon, R.D. 2, Kumeu.
 1BFR—Beere, J. E. L., 23 Beaubank Rd, Kelston, Auckland 7.
 1BFS—Birt, K. D., 19 Gibbs Crescent, Red Hill, Papakura.
 1BFT—
 1BFU—
 1BFV—Walsh, J. C., 3 Hewson St., Ellerslie, Auckland.
 1BFW—Mawhinney, P. E., 33 Paihia Road, Onehunga, Auckland 6.
 1BFX—Broadley, C. L., 12 Bayview Road, Takapuna, Auckland 9.
 1BFY—Donaldson, D. L., 80 Woolfield Road, Papatoetoe.
 1BFZ—Robertson, D. J., 29c Youngs Rd., Papakura.
 1BGA—
 1BGB—
 1BGD—Waite, F. W., 15 Fernleigh Ave., Epsom, Auckland 3.
 1BGD—Davis, B. T., 13 Station Road, Takanini.
 1BGE—Whitwell, G. R., 16 Cobham Drive, Kawerau.
 1BGF—Kerr, I. S., 7 Kennedy Street, Paeroa.
 1BGG—The Boys' Brigade First Papakura Coy. Radio Club (Trustee, C. W. Garlick), 4 Coles Crescent, Papakura.
 1BGH—Tidey, J. D., 6 Corilin Place, Rotorua.
 1BGI—Crabtree, J. A., Moumoukai Valley, R.D. 3, Papakura.
 1BGJ—Beattie, R., 805 East Coast Road, Browns Bay, Auckland.
 1BGK—Bugden, K. G., 20 Marriott, Road, Pakuranga.
 1BGL—Kirkland, W. A., "Hillview", Te Haumi, Paihia (P.O. Box 153).
 1BGM—Kirkland, F. S. (Mrs), "Hillview", Te Haumi, Paihia (P.O. Box 153).
 1BGN—Rounthwaite, T., 52 Gladstone Road, Northcote, Auckland 9.

ZL—

1BGO—Davies, S. N. M., 59 Selwyn Crescent, Milford, Auckland 9.
 1BGP—Paltridge, J. S., 37 Imrie Avenue, Mangere East, Auckland.
 1BGQ—McChesney, G. R., 23 Great South Road, Papatoetoe.
 1BGR—Maddern, D. E., R.D. 7, Arohena, Te Awamutu.
 1BGS—Waterhouse, F. L. K., c/o B. E. Smith, "Merryvale", Bethlehem Road, R.D. 1, Tauranga.
 1BGT—Reid, L. R., 22 Hillcrest Avenue, Rotorua.
 1BGU—Rundell, L. I., 227 King Street Extn, Whakatane.
 1BGV—Roberts, M. J., 11 Grey Street, Hamilton.
 1BGW—Maude, R. deM., 68 Levers Road, Otumoetai, Tauranga.
 1BGX—Heincen, M. J., 37 Evelyn Road, Howick, Auckland.
 1BGY—Beebe, S. H., 351 Peachgrove Road, Hamilton.
 1BGZ—Forsyth, A. B., 37 College Road, Edgecumbe.
 1BHA—Lamont, D. J., 305 Willoughby Street, Thames.
 1BHB—
 1BHC—Baird, R. E., C/o B. Ody, R.D. 4, Whangarei.
 1BHD—Weddell, E. I., Seaview Avenue, Te Puru, Thames.
 1BHE—Matthews, J. F., 26 Oceanview Rd., Northcote, Auckland.
 1BHF—
 1BHG—Grindley, E. J., 34 Stonex Road, Papatoetoe.
 1BHH—Wesley College Amateur Radio Club (Trustee) J. Horsman, Wesley College, Pzerata.
 1BHI—Dingle, W. M., 27 Cesays Avenue, Hamilton.
 1BIJ—Dekker, J., 14 Bracken Street, Cambridge.
 1BHK—Wills, Alma, E. (Mrs), 1364 Dominion Road Ext. Mt. Roskill, Auckland 4.
 1BHL—Taylor, G. L., Gates Road, R.D.1., Hamilton.
 1BHM—Te Puke, C., Kaitoa Road, Ngaruawahia.
 1BHN—Oliver, K. W., 29 Kotare Crescent, Whangarei.
 1BHO—Vickerstaff, A. A., Mountain Road, R.D. 1, Henderson, Auckland 8.
 1BHP—Potter, W. H., 5 Washer Avenue, Whakatane.
 1BHQ—Powell, J. F., 47 Becroft Drive, Forrest Hill, Auckland 10.
 1BHR—Akins, C. A., 5 Lilburn Street, Warkworth.
 1BHS—Hutchinson, S. R., 293 St Heliers Bay Road, Auckland 5.
 1BHT—Selwyn College Radio Club (Trustee, E. G. Caldwell), Selwyn College, Kohimarama Road, Auckland 5.
 1BHU—Hastings, W. A., Weka Road, Taupo.
 1BHV—Davis, W. H., 57 Pihanga St., Taupo.
 1BHW—Parkinson, M. A., 24 Roosevelt Road, Rotorua.
 1BHX—
 1BHY—Young, C. R., 1 Aotearoa Terrace, Murrays Bay, Auckland 10.
 1BHZ—May, D. V., 20 Learmonth Avenue, Birkenhead, Auckland 10.
 1BIA—Oliver, J., 29 Kotare Crescent, Whangarei.
 1BIB—Hookham, C. R., 54 Cornwall Road, Papatoetoe.
 1BIC—Snow, G. A., C/o Pavlova Coffee Lounge, Gt South Road, Papakura.
 1BID—Davis, E. T., 26 Royal Arch Place, Papakura.
 1BIE—Belcher, G. M., 22 Park Street, Morrinsville.
 1BIF—Jenkins, K. B., 121 Valley Road, Papakura.
 1BIG—Cubitt, B. L., Flat 5, 27 Cameron Road, Hamilton.
 1BIH—Hearn, W. A., 25 Grey Street, Waihi.
 1BII—Shakes, L. C., 131 River Road, Kawerau.
 1BIJ—Williams, L., 19 Paton Road, Howick, Auckland.
 1BIK—McKechie, K. H., 7A Woodvale Road, Auckland 7.
 1BIL—*Nina*
 1BIM—Dale, E. C. (Miss), 61 Rodney Street, Wellsford.
 1BIN—Nutting, L. G. W. D., 5 Garland Road, Greenlane, Auckland 5.
 1BIO—Napier, E. J., 17 Seaview Road, Glenfield, Auckland.
 1BIP—
 1BIQ—Eckett, S. J. B., 23 Pinedale Place, Henderson, Auckland.
 1BIR—Rist, T. A., 73 Miller Road, Mangere, Auckland.
 1BIS—McEniery, R. A., 20 Vista Crescent, Glendowie, Auckland.
 1BIT—Chapman, B. J., Cadmans Rd., R.D. 3., Tirohia, Paeroa.
 1BIU—
 1BIV—Garrett, J. W., 8 Maheke St., St Heliers, Auckland 5.
 1BIW—Ward, L., 60 Ranfurly Street, Dargaville.
 1BIX—Soppet, D. A., 4A Ruarangi Rd., Mt. Albert, Auckland 3.
 1BIY—Kralicek, V. J., 42 Kenney Street, Rotorua.
 1BIZ—Henry, E. J. (Mrs), 27 McRae Road, Mt Wellington, Auckland.
 1BJA—
 1BJB—Beale, D. J., 108 Makoia Road, Birkenhead, Auckland 10.

ZL—

1BJC—Head, B. P., 17 Grassmont Terrace, Otumoetai, Tauranga.
 1BJD—Woods, G., Tauranga Hotel, Tauranga.
 1BJE—Reed, D. W., 703-709 Dilworth Bldg, Custom Street, Auckland 1.
 1BJF—
 1BJG—Gray, M. F., 57 Yates Road, Mangere East.
 1BJH—Jekel, H. B., Ascot Road, Mangere.
 1BJI—Goodsir, J. W., 10 Glengarry Road, Glen Eden, Auckland 7.
 1BJJ—Morris, T. J., Paparoa Road, Te Puna, R.D. 2, Tauranga.
 1BJK—Turner, R. W., Main Road, Waitoa.
 1BJL—Williams, C., R.D. 2, Cambridge.
 1BJM—
 1BJN—Terrill, R., Flat 21, Fire Headquarters, Pitt Street, Auckland 1.
 1BJO—Wright, W. O., 2 Forbes Place, Kawerau.
 1BJP—Parkinson, D. J., 36 Western Road, Otumoetai, Tauranga.
 1BJQ—Wardley, D. E., 45C Ambler Avenue, Glen Eden, Auckland 7.
 1BJR—Keay, G. S., 11A Huia Road, Titirangi, Auckland 7.
 1BJS—Anderson, R. W., 57 Pandora Avenue, Rotorua.
 1BJT—
 1BJU—Thompson, N. K., 42 Roseberry Avenue, Birkenhead, Auckland.
 1BJV—Turvey, W. W., 20 Nutsey Avenue, Northcote, Auckland 9.
 1BJW—Hallett, W. R., 37 Savoy Road, Glen Eden, Auckland.
 1BJX—Clark, L. D. G., 140 East Tamaki Road, Otara.
 1BJY—Burry, J. P., 50 Reid Road, New Lynn, Auckland 7.
 1BJZ—Burton, N. F., 10 Astor Place, Clayton Park, Manurewa.
 1BKA—McIntosh, G. S., 10 Watson Place, Papatoetoe.
 1BKB—Williams, C., 198 Harbour Road, Port Ohope.
 1BKC—Broderick, T. E., 43 Tainui Street, Tokoroa.
 1BKD—Busch, T. C., Main Rd., Towai.
 1BKE—Beets, R. F., 34 Massey Street, P.O. Box 71, Kawerau.
 1BKF—Marshall, O. H., 16 Dunlop Drive, Papanui Beach.
 1BKF—Wilson, T. G., 53 Tirimoana Road, Te Atatu, Auckland 8.
 1BKH—Hogg, E. R., 33 Simmons Crescent, Rotorua.
 1BKI—Boshier, D. M., 24 Ross Street, Onerahi, Whangarei.
 1BKJ—Sandlant, P. W., 17 Mayfair Crescent, Mairangi Bay, Auckland 10.
 1BKK—Edwards, K., 17 Arthur Street, Ellerslie, Auckland 5.
 1BKL—M. W. Lister (Mrs), Ridge Road, Point View, Papatoetoe (P.O. Box 23-508 Auckland).
 1BKM—Engel, F. W., 33 Fairmount Road, Glen Eden, Auckland.
 1BKN—Codlin, J. K., 12 Margaret Street, Tauranga.
 1BKO—Blyth, R. A., 119 Peary Road, Mt. Eden, Auckland 4.
 1BKP—
 1BKQ—Adams, C. W., 18 Tizards Road, Birkenhead, Auckland 10.
 1BKR—Cunliffe, J. J., 11 Martin Road, Manurewa.
 1BKS—Cunliffe, V. G., 83 Grace Road, Tauranga.
 1BKT—Buxton, D. A. L., 47 Wallace Terrace, Te Awamutu.
 1BKU—Williams, G. H., Taurikura.
 1BKV—Coombs, M. J., 38 Park Avenue, Tokoroa.
 1BKW—Lees, G. D., 120 Whitney Street, Blockhouse Bay, Auckland 7.
 1BKX—Rodgers, A. E., 19 Cradock Street, Avondale, Auckland 7.
 1BKY—Hothem, N. V., 413 Great South Road, Papakura, Auckland.
 1BKZ—Henry, R. I., 27 McRae Road, Mt Wellington, Auckland 6.
 1BLA—Fox, R. D., 36 Galaxy Drive, Mairangi Bay, Auckland 10.
 1BLB—Churcher, B. R., 2 Thorley Street, Mt. Eden, Auckland 4.
 1BLC—Morris, T. N. J., 47 Boundary Road, Blockhouse Bay, Auckland.
 1BLD—Ward, M. T., Silverhill Road, Te Hana.
 1BLE—Stewart, R. D., No. 2 R.D., Kaipara Flats.
 1BLF—Poletti, M. J., 69 Willis Road, Papakura.
 1BLG—Grimes, R., 5 Fifth Avenue, Mt Albert, Auckland 3.
 1BLH—Walton Scout/Ranger Radio Club (Trustee G. K. Bli)—Ockleston, E. W., 25 Killarney Street, Takapuna, Auckland 9.
 1BLJ—Hutchins, M. G. D., 92 Pah Road, Howick, Auckland.
 1BLK—Turnbull, P., 51 Nixon Street, Hamilton.
 1BLL—Adniff, E. (Mrs), 20 Rutherford Street, Otumoetai, Tauranga.
 1BLM—Creswell, R. M., 47 Tamaki Drive, Mission Bay, Auckland 5.

2L—

1BLN—
 1BLO—Holt, J., 17 Matai Street, Waiuku.
 1BLP—Burrows, G., 21 Graham Bell Avenue, Auckland 4.
 1BLQ—Goree, F. L. J., 4 Kevin Street, Rotorua.
 1BLR—Fish, L. G., 9 Ann Street, P.O. Box 862, Rotorua.
 1BLS—Smith, J. B., 45 Thornlow Street, Glen Eden, Auckland.
 1BLT—Alderwick, G. B., 30 Nixon Street, Hamilton.
 1BLU—Aituru, T., 13 McNaughton Avenue, Mangere.
 1BLV—Howells, D., 5 Weka Street, Rotorua.
 1BLW—Tweeddale, K., R.D. 4, Woodlands, Opotiki.
 1BLX—Weston, G. A., 179 Rosebank Rd., Avondale, Auckland 7.
 1BLY—Boys' Radio Club, Hamilton Boys' High School (Trustee, A. M. Thomas), Peachgrove Rd., Hamilton.
 1BLZ—Eastern Suburbs Electronic Radio Club (Trustee: Mrs E. J. Henry), 27 McRae Road, Mt. Wellington, Auckland, 6.
 1BMA—Grey, G. R., House 5, Fire Station, Killarney Street, Takapuna, Auckland 9.
 1BMB—Scott-Allen, J. C., 39A Udy's Road, Pakuranga.
 1BMC—Armstrong, P. J., 10 Normanby Street, Kawerau.
 1BMD—
 1BME—
 1BMF—Fraser, D. J., Corporals' Club, R.N.Z.A.F. Base, Whenuapai.
 1BMG—Slone, J., Thornton Road, R.D. 1, Cambridge.
 1BMH—
 1BML—Wilson, E. L., 18 Rasteur Place, Avondale, Auckland 7.
 1BMJ—Taylor, A. K., 47 Maugham Drive, Bucklands Beach.
 1BMK—Watt, R. G., 23 Sylvia Road, Northcote, Auckland 10.
 1BML—Harris, A. W., 131 Tennessee Avenue, Mangere East.
 1BMM—Dalton, E. V. C., 19 Tautari Street, Orakei, Auckland 5.
 1BMN—McMillan, D. L., 32 Cobham Crescent, Kelston, Auckland 7.
 1BMO—Silk, G. C., 98 King Street, Cambridge.
 1BMP—Mail, H. J., 880 New North Road, Mt Albert, Auckland 3.
 1BMQ—Stent, J. A., 46 Silverstream Road, Whangarei.
 1BMR—Keon, G. G., 3 Woburn Street, Mangere East.
 1BMS—Rhodes, J., 698 Dominion Road, Auckland 4.
 1BMT—
 1BMU—Lowry, M. R., Lowry Road, Bombay, Auckland.
 1BMV—Macdonald, C., 7 Scotia Place, Auckland.
 1BMW—Cunningham, M., 8 Staff Village, Hautu, Turangi.
 1BMX—Greenaway, W. P., 10 Searanck Place, Hamilton.
 1BMY—
 1BMZ—Padgett, A. B., 125 Fitzroy Avenue, Hamilton.
 1BNA—Harker, J. S., 82A Mokoia Road, Birkenhead, Auckland 10.
 1BNB—Newman, M. D., 18 Matai Avenue, Matamata.
 1BNC—Goodare, T. T., 14 Main Road, R.N.Z.A.F., Hobsonville.
 1BND—Smith, S. H. G., 24A Evans Road, Glen Eden, Auckland 7.
 1BNE—Williamson, R., C/o 13 Tongariro Street, Mt Eden, Auckland 3.
 1BNF—
 1BNG—Orton, N. J., 6 Hardley Street, Hamilton.
 1BNH—Murphy, P. M., Oaklands Road, R.D. 1, Papakura.
 1BNI—Brant, P. A., 41 Regent Street, Papatoetoe.
 1BNJ—Ryder, S. F., 55A Arimu Road, Papakura.
 1BNK—Sullivan, V. J., 167 Scenic Drive, Titirangi, Auckland 7.
 1BNL—Sullivan, J. (Mrs), 167 Scenic Drive, Titirangi, Auckland 7.
 1BNM—Larcombe, D. C., 20 Rahiri Rd, Mt Eden, Auckland 4.
 1BNN—Brill, A. J., 2 Rosalind Road, Auckland 10.
 1BNO—Twinn, M. H., 30 Richard Farrel Avenue, Remuera, Auckland 5.
 1BNP—
 1BNQ—Gamble, A. A. R., 46 Mack Place, Papakura.
 1BNR—Sando, B. C., 31B Bevy Street, Milford, Auckland 9.
 1BNS—Rogers, R. V. J., 79 Whittaker Road, Rotorua.
 1BNT—Ogden, J. R., 17 High Street, Whangarei.
 1BNU—Mancer, P. J., 4 Poto Street, Henderson, Auckland 8.
 1BNV—Keatinge, R. N., 8 Barnard Street, Matamata.
 1BNW—Hanson, H. G., 106A Godden Crescent, Mission Bay, Auckland 5.
 1BNX—Toft, T. B., 19B Ngapuhi Rd, Remuera, Auckland 5.
 1BNY—Hiscocks, S. V., 644 Manukau Road, Epsom, Auckland 3.
 1BNZ—Clough, D. L. W., 5 Helen Street, Rotorua.

2L—

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 1BOB—Manley, R. C., 9 Laurie Avenue, Parnell, Auckland 1.
 1BOD—Dennis, G. A., 91 Bridge Street, Opotiki.
 1BOD—Norrie, B. G., P.O. Box 71, Coromandel.
 1TAA—Allison, M. A., P.O. Box 107, Surfdale, Waiheke Is., Auckland.
 1TAB—Thomas, R. P. T., 21 High St., Glenfield, Auckland.
 1TAC—
 1TAD—Johnston, R. B., 11 Coates Ave., Orakei, Auckland.
 1TAE—English, B. D., 58 Sycamore Drive, Mairangi Bay, Auckland 10.
 1TAF—MacMillan, R. E., 542 Main South Road, Hatfields Bay, Orewa.
 1TAG—Plimley, A. E., 104 Porawai Road, Thames.
 1TAH—
 1TAI—McBurney, R. T., Oliver Road, Bucklands Beach, Auckland.
 1TAJ—Mitchell, C. R., 6 Sylvan Crescent, Woodlands Park, Titirangi, Auckland 7.
 1TAK—Sergeant, P. A., 20 Marie Avenue, Te Atatu South.
 1TAL—Sergeant, M. A., Mrs, 20 Marie Avenue, Te Atatu South, Auckland.
 1TAM—Crookes, J. A., Flat 3, 65 Luke Street, Otahuhu, Auckland 6.
 1TAN—O'Callaghan, D. R., 72 Paragon Avenue, Birkdale, Auckland.
 1TAO—Kimber, W. C., 47 Kawaha Point Road, Rotorua.
 1TAP—Adams, R. J. J., 20 Winisford, Ave., Manurewa.
 1TAQ—Lister, A. M., Redoubt Road, Papatoetoe R.D.
 1TAR—Eckleston, G. W., 25 Killarney Street, Takapuna, Auckland 9.
 1TAS—Crandell, J. F., Matakana Road, Warkworth.
 1TAT—Brown, I. W., Tirau Rd., Hinuera.
 1TAU—Coghlan, P. R., 18 Essex Street, Te Atatu South, Auckland.
 1TAV—Small, B. C., 62 Price Ave., Sandringham, Auckland.
 1TAW—Totman, T. W., 105 Harbourview Road, Woodlands Park, Titirangi, Auckland 7.
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 1TAY—Thornton, D., 23 Duncan Ave., Sandringham, Auckland.
 1TAZ—Purdy, G. N., 4 Ramelton Road, Mt Roskill, Auckland 4.
 1TBA—Parsons, D. R., 14 Freeman Place, Te Awamutu.
 1TBB—Carter, R., 22 Nikau Road, Otahuhu, Auckland.
 1TBC—Jackson, K. P., 46 Mays Rd., Onehunga, Auckland.
 1TBD—Speak, M. D., Flat 1, 30 Don Croft Street, Morningside, Auckland 3.
 1TBE—
 1TBF—
 1TBG—Forrester, H. A., 1 Arney Road, Ranui.
 1TBH—Henby, A. O., 84 Kings Rd., Panmure, Auckland.
 1TBI—Glasgow, M. R., 37 Princess Road, R.D. 4, Tauranga.
 1TBJ—Dare, P. H., 19 Glenfield Road, Rotorua.
 1TBK—Andrews, B. J., Flat 2, 63 James Street, Rotorua.
 1TBL—Uren, P. E., 204 Beach Road, Thames.
 1TBM—Harvey, R. F., 33 Birdwood Avenue, Papatoetoe.
 1TBN—Stewart, W. C., Davies Road, Drury, Auckland.
 1TBO—Phillips, R. A., 59 Huka Road, Birkenhead, Auckland 10.
 1TBP—Croll D., 25 Pouwhare Street, Whakatane.
 1TBQ—Angell, A. R., 49 Crane Street, Mt. Maunganui.
 1TBR—Tan, Y. K., 18 Kororo Street, Northcote, Auckland 9.
 1TBS—Smith, L. J., 123 Sandspit Road, Howick, Auckland.
 1TBT—Granville, J. M., Ocean View Road, No. 4 R.D., Wellsford.
 1TBU—
 1TBV—Holstein, B. J., 111 Park Rd., Te Awamutu.
 1TBW—Matthews, D. B., 24 North Road, Kaitia.
 1TBX—Grise, M. J., 109 Norwood Road, Bayswater, Auckland 9.
 1TBY—Nettleingham, F. J., Matahui Road, Katikati.
 1TBZ—Tatton, W. C., 2 Sellwood Street, Henderson, Auckland 8.
 1TCA—Chatterton, B., 6 Little Place, Hamilton.
 1TCB—Mayclair, G. M., Mayclair Farm, Rings Beach, Whitianga.
 1TCC—Anderson, B. B., 491 Mt Albert Road, Auckland 4.
 1TCD—Knox, R. M., 62 Ridge Road, Mt Roskill, Auckland 4.
 1TCE—Pullar, G. R., Waivera Place, Waivera.
 1TCF—Fortune, T. La T., 129 Bleakhouse Road, Howick.
 1TCG—Edeane, P. H., 416 Mt Albert Road, Mt Roskill, Auckland.
 1TCH—Edmunds, P. C. W., 33 Pah Rd, Epsom, Auckland 3.
 1TCI—Grange, D. L., 81 Avonleigh Road, Greenbay, Auckland 7.
 1TCJ—Jackson, L. H., 8 Edmond St, St Heliers, Auckland 10.

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 ITCM—McGlashan, I., Waitoki, Kaukapakapa.
 ITCN—Gibson-Hughes, A. H., Flat 5, 33 St Georges Bay Parnell, Auckland 1.
 ITCO—Tapp, A. J., 93 Ulster Street, Hamilton.
 ITCP—
 ITCQ—
 ITCR—
 ITCS—Lovett, K. J., 1 Union St., Papakura.
 ITCT—Derecourt, M. J., 2 Stonehurst Avenue, Waiuku.
 ITCU—Dawson, S. W., 60 Church Road, Mangere Bridge, Auckland.
 ITCV—Frazerhurst, W. .K., 31 Victoria Street, Pukekohe.
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 ITCX—Franke, M. A., 69 Beach Road, Papakura.
 ITCY—Robinson, E. E., 98 Pah Road, Papatoetoe.
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 ITDC—Baldock, K. T., 293B Hillsborough Road, Auckland 4
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 ITDE—Bartley, R. W., Whitford Park Road, Whitford.
 ITDF—Blair, D. J., 12 Hororata Rd., Takapuna, Auckland.
 ITDG—Gentry, L. J. (Mrs), 44 Ward Avenue, Rotorua.
 ITDH—Greenbrook, G. R., 17A Fraser Rd., Devonport, Auckland.
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 ITDJ—Burton, R. D., 13 McCullough Ave., Otara, Papatoetoe.
 ITDK—Moroney, P. R., Flat 1, 131 Melrose Road, Auckland 4.
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 ITDM—Horton, L. C. A., 8 Barry Road, Waihi.
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 ITDO—
 ITDP—
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 ITDY—Templer, H. A., 22 Mardon Road, Hamilton.
 ITDZ—Miller, C. J., 16 Cutler St, New Lynn, Auckland 7.
 ITFA—Murphy, D. J., 7 Harris Street, Mt Maunganui.
 ITFB—
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 ITFD—Iversen, R. J., 1 Dudley Ave., New Lynn, Auckland.
 ITFE—Carter, P. R., 2 Harford Place, Pakuranga.
 ITFF—Hill, M. J., 117 Sutherland Road, Otumoetai, Tauranga.
 ITFG—Ballantyne, D. L., Bush Rd., Albany, Auckland.
 ITFH—Folwell, P. G., 51 Fairdene Ave., Henderson.
 ITFI—Ross, S. J., 33 Allum St., Kohimarama, Auckland 5.
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 ITFO—
 ITFP—
 ITFQ—
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 ITFS—McDonald, G. R., 122 East Coast Road, Milford, Auckland 9.
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ZL—

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 ITGN—
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 ITGZ—Purvis, A. W., 25 Mataura Road, Waihi.
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 ITHF—McDonald, K. W., Wynyard Street, Kawakawa.
 ITHG—Bevan, T. M., 11 Masefield Drive, Hamilton.
 ITHH—Junge, A. G., 128 Stanley Avenue, Te Aroha.
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 ITHL—Conquer, B. R., Sturgess Road, Henderson.
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 ITHO—McNeil, D. R., 25 Otonga Road, Rotorua.
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 ITHQ—Tunncliffe, G. O., 5 Meade Street, Whakarewarewa, Rotorua.
 ITHR—Lawson, D. W., 906 Three Kings Road, Auckland 4.
 ITHS—
 IHTH—
 ITHU—Cooke-Willis, S. O., 6 Bowman Road, Milford, Auckland.
 ITHV—Crawford, W., 27 Hillview Road, Ngaruawahia.
 ITHW—Thwaites, I. G., 10 Herbert Road, Mt Eden, Auckland 3.
 ITHX—Moretti, G. S., 5 Harmony Lane, Otahuhu, Auckland 6.
 ITHY—Bodley, R. A., 183 Kawaha Point Road, Rotorua.
 ITHZ—Messent, D. L., 30 Matai Street, Murupara.
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 ITIB—Thompson, G. O., 50 Onerahi Road, Whangarei.
 ITIC—Maire, P. C., Flat 2, 50 Watea Road, Torbay, Auckland 10.
 ITID—Dixon, L. N., 18 Koru Street, Mangere Bridge, Auckland.
 ITIE—Sivess, J. J., 34 Vanessa Crescent, Glendowie, Auckland.
 ITIF—Postlewaite, C. G., 101 Mead Street, Avondale, Auckland 7.
 ITIG—Moss, P. J., 40 Tawa Street, Hamilton.
 ITIH—Ramsay, I. S., 62 Belfast Street, Hillsborough, Auckland 4.
 ITII—George, L. H., 65 King Street, Opotiki.
 ITIJ—Upsdell, D. M., 15 Caraway Street, Whakatane.
 ITIK—
 ITIL—Robertson, J. B., 21A Fenton Street, Papatoetoe.
 ITIM—Stead, J. E., Forestry Road, Maioro, R.D. 2, Waiuku.
 ITIN—Taylor, K. L., 7 Rangipoia Place, Taurangi.
 ITIO—Morpeth, B. G., 16 Okahu Street, Orakei, Auckland.

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 1TIZ—Toon, D. J. P., 9 Amandale Avenue, Morningside, Auckland.
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 1TJB—
 1TJC—
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 1TJH—Gyde, G. N., C/o N.Z. Electricity Dept., Peachgrove Road, Hamilton.
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 1TJP—Phillips, R. L., 27A Seaview Rd, Milford, Auckland, 9.
 1TJQ—
 1TJR—
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 1TJU—Dawson, D. H., 11 Chatsworth Crescent, Pakuranga.
 1TJV—McNab P.O., 21 Bertram Street, Warkworth.
 1TJW—
 1TJX—Black, C. W., 44 Harlston Road, Mt. Albert, Auckland.
 1TJY—Hall, P. J., 90 College Road, Edgecumbe.
 1TJZ—Mitchell, G., 8 Bexley Way, Papakura.
 1TKA—Hindmarsh, R. J., 78 Kelvin Road, Papakura.
 1TKB—Shaw, A. G., 27 Steven St., Mangere East.
 1TKC—Crawshaw, G. R., 217 Victoria Street, Dargaville.
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 1TKE—Clark, D. W., Sergeants' Mess, RNZAF Base, Whenuapai.
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 1TKH—Leys, S. W., 14 Bassett Road, Remuera, Auckland 5.
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 1TKM—Smith, C. C., Flat 8, 33 Rodney Street, Howick, Auckland.
 1TKN—Bailey, J. C., 209 Te Atatu Road, Te Atatu, Auckland.
 1TKO—
 1TKP—
 1TKQ—
 1TKR—Foster, B. E., 71 Main Road, Waihi Beach.
 1TKS—Duncan, A. K., 48 Comrie Road, Hamilton.
 1TKT—Green, A. W., Tangowahine Valley, R.D.2., Dargaville.
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 1TKV—
 1TKW—Bodman, K. I., 61 Gladstone Road, Waihi.
 1TKX—Greensmith, A. S., Maddreus Road, Marua, R.D. 1, Hikurangi.
 1TKY—
 1TKZ—Egan, P. D., 12 Island View Terrace, Howick, Auckland.

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 1TLF—
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 1TLT—
 1TLU—
 1TLV—
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 1TLY—Coleman, R. E., 94 Darraghs Street, Tauranga.
 1TLZ—Warrington, I., Okaihau East.
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 1TMB—Foreman, Q. S., Puahue, 1 R.D., Te Awamutu.
 1TMC—Currie, P. G., 7 Monteray Street, Auckland 6.
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 1TMH—
 1TMI—
 1TMJ—
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 1TML—Shepard, J., 19 Julian Place, Otara.
 1TMM—Stocker, R. V., 7 Dalmeny Close, Mairangi Bay, Auckland 10.
 1TMN—Flower, J. M., 56 Halesowen Avenue, Mt. Eden, Auckland 4.
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 1TMP—Smith, W. S., Flat 2, 5 Leys Crescent, Remuera, Auckland 5.
 1TMQ—McCarthy, J. W., 19 Manapouri Place, Hamilton.
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 1TMS—
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 1TMV—Dennis, D. M., 37 St John Street, Opotiki.
 1TMW—Marsh, D. J., No. 7 R.D., Wharehine, Wellsford.
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 1TMY—George, D. R., 6 Kaurilands Road, Titirangi, Auckland 7.
 1TMZ—Ross, D. A., 19 Kulim Avenue, Otumoetai, Tauranga.
 1TNA—Tomlinson, G. H., Mangawhai Road, Te Hana.
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 1TND—Matheson, R. D., 25A York Street, Parnell, Auckland, 1.
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 1TNF—Bartnell, D. W., 25 Maraetai Heights Road, Maraetai Beach.
 1TNG—
 1TNH—Hirtzel, J. E., 53 Otuhuiwai Crescent, Whakatane.
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 1TNJ—Wood, D. I., 5 Ngaere Avenue, Hamilton.
 1TNK—Davis, A. G., 89 Bridge Street, Opotiki.
 1TNL—
 1TNM—
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 1TNO—O'Loan, T. J., 41 Seaview Ave, Northcote, Auckland 9.
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 1TNT—Maginnity, D. N., 8 Acacia Avenue, Hamilton.
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 1TOH—Deacon, J. W., 156 Bellevue Road, Tauranga.
 1TOI—Lenz, M. C., 59 Vercoe Road, Hamilton.
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 1TOO—
 1TOP—Pook, L. M., R.D. 2, Hinuera Road West, Matamata.
 1TOQ—Meehan, P. F., 345A Wairau Road, Takapuna, Auckland 9.
 1TOR—Nobel, P. J., 255 Te Atatu Road, Te Atatu South, Auckland 8.
 1TOS—Riggs, P. T., 16 Routley Avenue, Kaikohe.
 1TOT—Hobbs, J. M., 10 Waterton Place, Avondale, Auckland 7.
 1TOU—Lowe, J., 7 St Leonards Road, Mt Eden, Auckland 4.
 1TOV—Van Dam, A. H., 16 Browning Street, Manurewa.
 1TOW—Orr, W. B., 28A Beckenham Avenue, Epsom, Auckland 3.
 1TOX—Stevenson, J. F. G., 9 Regent Street, Otumoetai, Tauranga.
 1TOY—Caldwell, B., 24 Ngahue Crescent, Whenuapai Air Force Base.
 1TOZ—
 1TPA—Corin, T. G., 2 Innesfree Drive, Ellerslie, Auckland 5.
 1TPB—Brooks, R. K., 391 Ellerslie Panmure Highway, Panmure, Auckland 6.
 1TPC—Carter, R. H., 20 Fairview Rd, Mt Eden, Auckland 3.
 1TPD—Downs, G. M., 6 Glen Road, Henderson, Auckland 8.
 1TPE—McDonald, B. D., 7 Oriana Avenue, Mt Roskill, Auckland 4.
 1TPF—
 1TPG—van Loon, Q. J. M., 50 Peter Buck Road, Avondale, Auckland 7.
 1TPH—Hayman, S. R., 28 Doment Crescent, Orewa.
 1TPI—Smirk, A. T., 10 Masons Avenue, Herne Bay, Auckland 2.
 1TPJ—Robertson, N. L., 23 Tauhara Street, Green Bay, Auckland 7.
 1TPK—Fisher, G. L. S., 38 Gilletta Road, Mt Roskill, Auckland 4.
 1TPL—
 1TPM—Wilson, C. R. S., Hetherington Road, Henderson, Auckland 8.
 1TPN—Neilson, R. P., 82 McAllister Street, Whakatane.
 1TPO—Parish, D. A., Cape Reinga Lighthouse, Private Bag, Kaitia.
 1TPP—Price, P. G., 3 Hampton Terrace, Matamata.
 1TPQ—Pederson, W. J., Union Street, Opatiki.
 1TPR—Dale, J. T., 61 Rodney Street, Wellsford.
 1TPS—Bryant, R. S., 241 Whitney Street, Blockhouse Bay, Auckland 7.
 1TPT—Granger, P. L., 4 Trent Street, Avondale, Auckland 7.
 1TPU—Harlick, N. G., 77 Gowing Drive, Meadowbank, Auckland 5.
 1TPV—Grimmer, K. R., Pt Albert Road, Wellsford.
 1TPW—Miller, G. B., 32 Osborne Avenue, Morrinsville.
 1TPX—Sergejew, E. A., 192A Blockhouse Bay Road, Auckland 7.
 1TPY—Wanhill, I. G., 20 Murray Rd, Te Atatu, Auckland 8.
 1TPZ—Cundy, C. R., The Avenue, Albany, Auckland.
 1TOA—
 1TOB—Lake, A. R., 348 Ngatai Road, Tauranga.
 1TOC—Savage, B. J., 76 Taikata Road, Te Atatu North, Auckland.
 1TOD—Dingley, Mrs M. J., 2139 Great North Road, Avondale, Auckland 7.
 1TOE—Rickman, J. P., 24 Tawa Street, Kaikohe.
 1TOF—Tennent, R. C., 3 Lucknow Place, Blockhouse Bay, Auckland 7.

ZL—

1TOG—Lee, S. W., 124 Favona Road, Mangere, Auckland.
 1TOH—Whittaker, V. W., 17 Princess Street, Tauranga.
 1TOI—Wrigley, P. H., 189 Kiripaka Road, Tikipunga, Whangarei.
 1TOJ—Urquhart, G. A., 42 Baycroft Avenue, Tauranga.
 1TOK—Hendriksen, R. H. E., No. 1 R.D., Wellsford.
 1TOL—Shapcott, J. C., 12 Dunkerron Avenue, Auckland 3.
 1TOM—Churchill, D. A., 18 Wallingford Place, Rotorua.
 1TON—
 1TOO—
 1TOP—Eaton, P. R., 8 Penrhyn Road, Mt Eden, Auckland 3.
 1TOR—
 1TOS—Wharton, K., 49 Chartwell Avenue, Glenfield, Auckland 10.
 1TOT—
 1TOU—
 1TOV—Luey, T., Corporals Club, Whenuapai Air Force.
 1TOW—O'Keefe, R. A., 8 Raetihi Crescent, Mt Albert, Auckland 3.
 1TOX—Gentry, K. R., 44 Ward Avenue, Rotorua.
 1TOY—
 1TOZ—Rowe, P. H., 12 Lovelock Court, Stewart Street, Whakatane.
 1TRA—Cox, R. O., 190 Old Wairoa Road, Papakura.
 1TRB—
 1TRC—Fendley, G. L., 10 Vanda Place, Greerton, Tauranga.
 1TRD—
 1TRE—Noad, S. M., 190 Nile Road, Forest Hill, Auckland 10.
 1TRF—De Wit, Rene, 1 Pegasus Drive, Rotorua.
 1TRG—Hughes, D. W., Te Kopia Road, Waikite Valley, R.D. 1, Rotorua.
 1TRH—Walker, A. V., Mrs, 51 Caronia Crescent, Mt Roskill, Auckland 4.
 1TRI—Gray, G. W., 72 Arthur Street, Tokoroa.
 1TRJ—Ireland, A. J., 295 Ocean Beach Rd, Mt Maunganui.
 1TRK—Tait, P. C., 26 Riverlea Road, Hamilton.
 1TRL—McDonald, L. F., 79 Lewis Street, Hamilton.
 1TRM—Leyland, R. A., 13 Orakei Rd, Remuera, Auckland 5.
 1TRN—Ooi, S. H., 8 Browning Street, Grey Lynn, Auckland 2.
 1TRO—Schulz, P. M., 37 Croall Crescent, Hamilton.
 1TRP—Pollock, B. F., 11 Kahu Street, Rotorua.
 1TRQ—Wootton, L. J., C/o H.M.N.Z.S. Tamaki, Devonport, Auckland.
 1TRR—Morrow, I. E., Firth Street, Drury.
 1TRS—Brabet, C. P., 37 Valley Road, Mt Eden, Auckland 3.
 1TRT—Callander, G. C., 58 Vercoe Road, Hamilton.
 1TRU—Hunt, P. J., 5 Onslow Street, Kawerau.
 1TRV—Bowcock, J. M., 15 Grosvenor Street, Grey Lynn, Auckland 2.
 1TRW—Codling, R. D., 77 Mariri St, Onehunga, Auckland 6.
 1TRX—Wilson, J. P., 10 Brian Avenue, Milford, Auckland 9.
 1TRY—Keating, A. R., 8 Barnard Street, Matamata.
 1TRZ—Martens, P. H., Te Poi, R.D. 3, Matamata.
 1TSA—Hutton, R. M., Immigration Hostel, Mangere.
 1TSB—Newman, N. L., 33 Carlton-Gore Road, Grafton, Auckland 3.
 1TSC—Cox, J. R., 31 Formby Avenue, Point Chevalier, Auckland 2.
 1TSD—
 1TSE—McConnell, J. F., 818 New North Road, Mt Albert, Auckland 3.
 1TSF—Fish, A. P., 10 Waiohua Road, One Tree Hill, Auckland 5.
 1TSG—Adams, S. R., 17 Freshney Place, Manurewa.
 1TSH—Llew, C. F., 14 Ward Terrace, Sandringham, Auckland 3.
 1TSI—Bell, J. A., 19A Jellicoe Road, Murrays Bay, Auckland 10.
 1TSJ—Cope, G. B., 78 Rosier Road, Glen Eden, Auckland 7.
 1TSK—Ladyman, D. R., 25 Carlton Street, Te Aroha.
 1TSL—Keswick, M. H., 24 Marewa Street, Te Atatu South.
 1TSM—
 1TSN—Hollis, M. A., 98 The Drive, Epsom, Auckland 3.
 1TSO—Cartwright, R. E., 43 Aranui Road, Mt Wellington, Auckland 6.
 1TSP—Stewart, L. F., 55 Allen Street, Morrinsville.
 1TSQ—Attrill, J. J., 7 Tawa Street, Mt. Maunganui.
 1TSR—Reynolds, E. W., 13 Coronation Street, Takapuna, Auckland 6.
 1TSS—Pope, L. R., 14 Montel Ave, Henderson, Auckland 8.
 1TSY—Young, J. R., 68 Rolleston Street, Kihikihi.
 1TSU—Haultain, A., 54 Henderson Street, Whakatane.
 1TSV—Dunning, M. W., Youth Hostel, Nelson Street, Auckland.
 1TSW—Sinton, J. J., 4 Wheretia Street, Taupo.
 1TSX—Lundy, C. S., 285 Clayton Road, Rotorua.
 1VHF—Auckland V.H.F. Group (Trustee D. A. Johnston). (Beacon Station). P.O. Box 10138 Balmoral.
 1VHW—Waikato V.H.F. Group (Trustee, I. W. Brown), Tirau Road Hinuera (Beacon Station).

AMENDMENTS

SECOND DISTRICT

ZL—

2AA—Brown, A. S., 14 Collins St., Gisborne.
 2AB—Wilkinson, D., 24 Sanders Avenue, New Plymouth.
 2AC—
 2AD—Harris, E. W., 83 Ormond Rd., Gisborne.
 2AE—Lancaster, A. B., 9 Tawa Street, Lower Hutt.
 2AF—Wilkinson, J., 30 Lancaster Street, Levin.
 2AG—Bruce, J. R., R.D. 1, Taihape.
 2AH—Reed, W. St. J., 11 Wood St., Upper Hutt.
 2AI—Sandford, H. D., Renwick, Blenheim.
 2AJ—Parminter, H. V., 121 The Ridgeway, Wellington, S.W.1.
 2AK—Rowson, L. T., 141 Tukapo St., Westown, New Plymouth.
 2AL—Jennings, L. F., 52 Wycliffe Street, Napier.
 2AM—Shirley, J. R., "Burnside", Bayview, Napier.
 2AN—Borcham, P., 3 Tauroa Rd., Havelock North.
 2AO—Branigan, C. R., 3 Central Ter., Lower Hutt.
 2AP—Eade, A., R.D. 4, Palmerston North.
 2AQ—Gibbes, J. F., 31 Espin Crescent, Wellington 5.
 2AR—Central Hawke's Bay Branch NZART (Inc.), (Trustee) H. Pomana, Pukeora, Waipukurau.
 2AS—Stevens, P. S., 913 Victoria Street, Hastings.
 2AT—Beale, E. W., 301 Frimley Avenue, Hastings.
 2AU—Fever, W. H., 15 Strathavon Rd., Miramar, Wellington, E.4.
 2AV—Chatfield, R. G., 41 Duthie Street, Karori, Wellington.
 2AW—Bonnington, R. L., Cable Bay, R.D. 1, Hira.
 2AX—Black, J. W., 14 Thompson Road, Napier.
 2AY—McComb, D. R., 156 Whitaker Street, Gisborne.
 2AZ—Clarkson, T. R., 35 Walter Road, Lowry Bay.
 2BA—
 2BB—Bradshaw, F. R., York Rd., Hastings.
 2BC—
 2BD—Brown, G. E., 35 Chamberlain Street, Nelson.
 2BE—Mills, J. C., Fernhill, Hastings.
 2BF—Ready, T. M., 69 Mana View Road, Paremata.
 2BG—Tabley, J. R., 31 Highbury Rd., Wellington, W.1.
 2BH—McGregor, I. J., 20 Davis Cres., Upper Hutt.
 2BI—Williams, J. R., 6 Marlborough St., Silverstream.
 2BJ—Gibson, G. A., 14 Seddon St., Aramoho, Wanganui.
 2BK—Simpson, G. R., 33 Main Street (Blenheim).
 2BL—Lough, E. B., 49 Amritsar St., Wellington.
 2BM—Nankivell, F. R., 133 Main Road, Bay View, Napier.
 2BN—Holden, J. W., Te Awanga, Haumoana R.D., Napier.
 2BO—Dixon, H. C., 22 Kainui Road, Wellington.
 2BP—Walker, J. G., 5 Kingsley Place, Richmond.
 2BQ—Hogan, J. G., 136 Long Melford Rd., Palmerston Nth.
 2BR—Lambert, K. A., 66 Hipango Terrace, Wanganui.
 2BS—Hester, H. A., Riverlands, Blenheim.
 2BT—Tanner, A. R., Karire Rd., Kairanga, Longburn.
 2BU—Lane, F. J. K., 33 Buckley Road, Wellington 3.
 2BV—Tozer, B. R., 7 Hadfield Street, Levin.
 2BW—McAnsh, I., R.D. 2, Upper Moutere.
 2BX—Richards, T. L., 103 Botanical Road, Palmerston North.
 2BY—Berry, R. E., 29 Benare St., Khandallah, Wellington.
 2BZ—Dunn, A. E., 14 The Esplanade, Paremata.
 2CA—Wooler, M. J., St. Patrick's College, Silverstream.
 2CB—Bartlett, J. R., 9 Waverley Street, Gisborne.
 2CC—Rowe, C. F., 28 Clyma Street, Upper Hutt.
 2CD—Hamer, W. R., 40 Awa Rd., Wellington.
 2CE—Bicknell, J. A., Papawai Road, Greytown.
 2CF—Speedy, S., Herbertville, Hawkes Bay.
 2CG—Cornick, M. L., Bredens Line, Marton.
 2CH—McGrath, F. P., 4 Cautley Street, Richmond, Nelson.
 2CI—Sinton, A. J., 6 Chester St., Greenmeadows, Napier.
 2CJ—
 2CK—Ireland, W. S., 65 Stansell Avenue, Nelson.
 2CL—
 2CM—Pattinson, J. W., 76 Main Road, Manaia.
 2CN—Innes, D. D., 1247 High St., Taitea.
 2CO—Neumer, G., 50 Brunswick Street, Lower Hutt.
 2CP—Cormack, J. B., 63 Queenwood Road, Levin.
 2CQ—
 2CR—Miller, N., 36 Stanley St., Berhampore, Wellington.
 2CS—Anderson, B. R. S., 13 Pembroke Rd., Stratford.
 2CT—Stewart, G. W., 5 Montgomery Avenue, Karori, Wellington 5.
 2CU—Bell, C., 22 Oswald St., Gisborne.

ZL—

2CV—Fulton, J. M. L. H., 16 Champion Terrace, Tahunanui, Nelson.
 2CW—Jensen, W. H. E., 22 Randwick Cresc., Lower Hutt.
 2CX—Dolan, J. B., 9 Devon Road, Wanganui.
 2CY—Francois, L. G., William St., Richmond, Nelson.
 2CZ—Smith, L. A., 95 Glenpark Avenue, New Plymouth.
 2DA—Newlands, G. B., 367 Waiwhetu Rd., Lower Hutt.
 2DB—Brown, A. D., 161 Great North Road, Wanganui.
 2DC—Chisholm, W. P., 86 Featherston St., Palmerston North.
 2DD—Goodin, N. H., 18 Trafalgar Street, New Plymouth.
 2DE—
 2DF—Fraser, D. L., 9 Bentinck St., Upper Hutt.
 2DG—Martin, W. G., c/o N.Z. Broadcasting Service, Titahi Bay, Wellington.
 2DH—Welsh, J. W., Patea Hospital, Dorset Street, Patea.
 2DI—Shortt, J. H., 80 Savage Cresc., Palmerston North.
 2DJ—Petersen, E. A., 13 Seabury Avenue, Foxton Beach.
 2DK—Holst, E. A. O., Baines R.D.7, Palmerston North.
 2DL—Carr, R. A., P.O. Box 3451, Wellington.
 2DM—Smith, H. C., 558 Childers Rd., Gisborne.
 2DN—
 2DO—Wiffen, M. A., 138 Beach Road, Haumoana.
 2DP—Budd, G. L., 59 The Drive, Tawa.
 2DQ—Fellows, W. H., 287 Karaka Bay Rd., Wellington, E.5.
 2DR—Danrell, R. A., 97 Orangi Kaupapa Rd., Wellington.
 2DS—Horowhenua Branch NZART Inc. (Trustee) E. D. Burnham, 15 Tawa Street, Levin.
 2DT—Cordy, J. G. G., 62A Raukawa Street, Wellington 3.
 2DU—Millane, M. L., 132 Campbell St., Karori, Wellington.
 2DV—Shepherd, N. C. C., Hayward St., Featherston.
 2DW—Hughes, W. J. T., 25 Cobden St., Gisborne.
 2DX—Patchett, G. P., 223 Sutherland Rd., Lyall Bay, Wellington, E.3.
 2DY—Parsons, A. D., 30 John St., Trentham.
 2DZ—Atkinson, T. M., 87 Clyde St., Palmerston North.
 2FA—Butler, G. B., 46 Winter St., Gisborne.
 2FB—Bullivant, W. E., 321 Ormond Road, Gisborne.
 2FC—
 2FD—Butel, D., 39 Mulberry Street, Lower Hutt.
 2FE—Falkner, B., 49 Karina Ter., Palmerston North.
 2FF—
 2FG—Torrie, A. W., 66 Ferguson St., Palmerston North.
 2FH—Fitzgerald, T. M. F., 12A Victoria St., Hawera.
 2FI—Knight, A. A., 52 Marlowe Street, Stoke.
 2FJ—Henry, G. M., 75 Westmeath Street, Waitangirua.
 2FK—Huggins, W. P., 495 Karaka Bay Road, Wellington.
 2FL—
 2FM—Burr, E. J., 22 Albert Street, Gisborne.
 2FN—Heinz, W. E., 74 Beasley Ave., Paparangi.
 2FO—Savell, I. S., 5 Tasman Place, Palmerston North.
 2FP—Steggles, A. G., 9 Savage Cres., Palmerston North.
 2FQ—Broggyne, T. A., 162 St. Vincent St., Nelson.
 2FR—Dyett, N. D., 71 Coutts St., Wellington, E.3.
 2FS—Mooney, T. R., 129 Waghorne Street, Napier.
 2FT—Dixon, C. W., 76 Lahore St., Wairoa.
 2FU—Hird, E. J., 61 Mantell St., Seatoun, Wellington, E.5.
 2FV—Richter, B. E., 56 Lonsdale Crescent, Wellington.
 2FW—Harbidge, L. W., 20 Mascot Street, Tawa.
 2FX—Wright, R. J., 11 Church St., Wellington.
 2FY—Roberts, H. R., 186 Nikau Street, Hastings.
 2FZ—Cole, R. S. L., 10 Stephen St., Johnsonville.
 2GA—Johnson, J., 6 Bute Place, Wanganui.
 2GB—
 2GC—Chamberlain, G., 88 Evans Bay Parade, Wellington 3.
 2GD—Beeby, R. E., 4 Durham Street, Wellington 2.
 2GE—Brown, J. E., 31 Kandy Crescent, Ngaio, Wellington, 4.
 2GF—Cooper, C., 14 Rewai St., Paraparaumu.
 2GG—Smith, W. T., 17 Oxford St., Palmerston North.
 2GH—Attewell, B. E., 19 Iranui Rd., Gisborne.
 2GI—Banks, K. G., 29 Tauntan Pl., Stoke.
 2GJ—Pearce, R. A., 6 Benge Cres., Upper Hutt.
 2GK—
 2GL—Dormer, F. G., 90 Ames St., Paekakariki.
 2GM—Minshall, G. T., 57 Bedford St., Northland, Wellington.
 2GN—Reakes, G. C., 14 Paisley Street, Levin.
 2GO—Fownes, H. G., 55 Rimu Road, Raumati.
 2GP—Taylor, J. T., Flat 2, 89 McDonald Street, Napier.
 2GQ—Morgan, R. S. H., 39 Larsen Cres., Tawa.
 2GR—Stiles, G. R., 34 Brougham Street, Nelson.
 2GS—Green, H. E. H., 22 Frankmore Ave., Johnsonville.

ZL—
 2GT—Sherring, N. W., 6 Norton Park Ave., Lower Hutt.
 2GU—Hanley, R. H., 15 Piri St., Palmerston North.
 2GV—
 2GW—Taylor, S. G., 9 Hannan Street, Levin.
 2GX—White, J. M., 152 Lytton Rd., Gisborne.
 2GY—Taillie, L. I., 16 Lupin Terrace, Linden.
 2GZ—Walding, N. N., 36 Alexander St., Wanganui.
 2HA—
 2HB—Roberts, C., 17 Harper St., Newtown, Wellington, S.1.
 2HC—Bradbury, N. H., 9 Kape Kape Place, Pukerua Bay.
 2HD—McGeachie, P. C., 41 Russell Road, Wainuiomata.
 2HE—Law, A. E., Mangatoto, Dannevirke.
 2HF—French, W. B., 4 Rata Place, Masterton.
 2HG—Hare, H. G., 380 Te Moana Road, Waikanae.
 2HH—Simpson, L. J., 4 Seddon Street, Waikanae.
 2HI—
 2HJ—Garrett, W. E. A., 58 Birdwood Rd., Lower Hutt.
 2HK—Reader, D. M., Hill Road, Ormond.
 2HL—Hill, C. P., 115 Creswick Ter., Wellington, W.2.
 2HM—McLean, B. H., 30 Moana St., Wanganui.
 2HN—Morgan, D. N., Glencairn R.D., Marton.
 2HO—Warner, B. A., 8 Willow Grove, Wainuiomata.
 2HP—Kendrick, T. J., 3 Ascot St., Palmerston North.
 2HQ—White, L., Ladies' Mile, Eltham.
 2HR—Pannett, B. W. J., 60 Larsen Cres., Tawa.
 2HS—Shennan, C. V., 94 Wilson St., Wanganui.
 2HT—Hooker, D. D., 11 Ramsay Pl., Karori, Wellington 5.
 2HU—Gardner, J. H., 30 Allen Berry Ave., Piriwai, South Napier.
 2HV—Hutt Valley Branch (N.Z.A.R.T.) Inc. (Trustees: E. N. Westwood, K. E. Grove), 26 Ropata Cres., Lower Hutt.
 2HW—Megann, T. H., 299 The Parade, Island Bay, Wellington, S.2.
 2HX—Cossgrave, D. A., 7 Torquay Ter., Wellington, S.1.
 2HY—Green, W. J., 32 Fergusson Drive, Gisborne.
 2HZ—Eckford, T. S., 47 Park Terrace, Blenheim.
 2IA—Sturm, A. B., 288 Dowse Drive, Lower Hutt.
 2IB—Benson, P. W., 262 High Steet, Dannevirke.
 2IC—Sharman, L. A., 43 Tom Parker Avenue, Napier.
 2ID—Black, A. E., 22 Miles Crescent, Newlands, Wellington.
 2IE—Millard, O. J., Main Road, Clive.
 2IF—Rolle, E. G., 30 Arapiki Road, Stoke, Nelson.
 2IG—Tombs, E. P., Hokio Beach School, Levin.
 2IH—Dodds, I. N., Redwoods Valley, Nelson.
 2II—Caldwell, D. G., 88 Jubilee Road, Khandallah, Wellington.
 2IJ—Andrews, F. R. W., 41 Sutherland Rd., Melrose, Wellington, E.3.
 2IK—McMillan, L. D., 7 Duke Street, Levin.
 2IL—Pottinger, R. S., 11 Ararino St., Trentham.
 2IM—McLea, Q. F., Flat 3, 28 Ribble Street, Wellington 2.
 2IN—Crumpton, R. E., 27 Kapiti Crescent, Titahi Bay.
 2IO—Collins, E. S., Main Road, Wakapuaka, R.D. 1, Nelson.
 2IP—Treeby, R. J., 7 Turehu St., New Plymouth.
 2IQ—Cassey, R., 92 Amritsar St., Khandallah, Wellington, N.5.
 2IR—Thevenard, C. M. H., 81 Queenwood Road, Levin.
 2IS—Wainwright, W. J., 23 Hereford St., Wellington.
 2IT—Lilley, E. C., 6 Shearer Place, Napier.
 2IU—Purdey, R. G., 17 Akatea St., Berhampore, Wellington, S.1.
 2IV—Gorman, D. D., 15 Hildreth Street, Wellington 5.
 2IW—Cockburn, I. L., 148 Parsons Street, Wanganui.
 2IX—Parker, C. H., Tiramea Road, Pahiatua.
 2IY—Gorman, W. D., 140 Donald St., Karori, Wellington, W.3.
 2IZ—Bartleet, J. R., Valley Road, Gisborne.
 2JA—Chisholm, D. H., 14A Kings Ave., Wanganui.
 2JB—French, E. J. S., 10 Lucknow Road, Havelock North.
 2JC—Way, C. J., 15 Anderson Street, Foxton Beach.
 2JD—
 2JE—Humphrey, L. G., 75 Seaview Rd, Paraparaumu Beach.
 2JF—Henskie, F. J., 31 Hornsey Road, Wellington 3.
 2JG—Anderson, G. A., 20 Leybourne Avenue, Wanganui.
 2JH—Nicol, D. S., 12 Hewitts Road, R.D. Linton.
 2JI—Thompson, J. P., 26 Churchill Cres., Gisborne.
 2JJ—Newman, J. E., Tuhara, Wairoa.
 2JK—
 2JL—Prime, D. R., Dixon Way, Taihape.
 2JM—Moore, J. A., 1 Denbigh Street, Feilding.
 2JN—Hodder, A. A., 394 Somme Parade, Wanganui.
 2JO—Souper, T. M., (Mrs), 62 Kirk Street, Otaki.
 2JP—
 2JQ—White, J. T., 62 Bisley Avenue, Tahunanui, Nelson.
 2JR—
 2JS—Black, I. W., 46 Harris Street, Marton.
 2JT—Story, R. B. E., Cormith House, Wellington Street, Picton.
 2JU—Fanthorpe, J. K. L., 7 Evelyn Place, Wellington, C.2.

ZL—
 2JV—Crawford, C. R. H., 20 Chapman Cres., Naenae.
 2JW—Hanley, A., 6 Mudie St., Lower Hutt.
 2JX—Pearce, M. E., 51 Buick St., Petone.
 2JY—
 2JZ—Dawson, A. H., 34 Hudson Avenue, Upper Hutt.
 2KA—Cuthbert, G. A., 186 Derwent St., Island Bay, Wellington, S.2.
 2KB—Kapiti Branch N.Z.A.R.T., Kapiti Branch (No. 69) N.Z.A.R.T. (Inc.) (Trustee: G. H. Railton, 7 Konini Road, Raumati).
 2KC—Moess, C. R., 13 Churchill Avenue, Fielding.
 2KD—Shepherd, D. A. C., 13 View Rd., Titahi Bay.
 2KE—Smith, W. A. D., Garage, Urenui.
 2KF—Gould, A. G. de T., 120 Cleveland Terrace, Nelson.
 2KG—Sharland, K. O., 370 Hardy Street, Nelson.
 2KH—Bennett, V. H., 57 Victoria Ave., Palmerston North.
 2KI—Armstrong, M. W., 121 Meadows Avenue, Lower Hutt.
 2KJ—Roper, D. J., 23 Brookes Street, Inglewood.
 2KK—Cruftwell, J. M. R., 60 Mount Street, Nelson.
 2KL—Heuvel, T.V.D., 8 Silverstream Road, Crofton Downs, Wellington.
 2KM—Robertson, G. A., R.D.2, Bay View, Napier.
 2KN—Millward, H. P., 11 Tulloch St., St. Johns Hill, Wanganui.
 2KO—Manawatu Branch NZART Inc. (Trustee: P. E. Grove), 15 Pirie Street, Palmerston North.
 2KP—Lowe, E. E., 7 Avon Terrace, Palmerston North.
 2KQ—Spiers, M. E., O'Dwyers Road, Spring Creek, Blenheim.
 2KR—
 2KS—Furness, J. S., 185 Howick Road, Blenheim.
 2KT—Brooker, R. G., Ikanui Road, Hastings.
 2KU—Ward, T., 47 Kano St., Karori, Wellington, W.3.
 2KV—Martin, C. J. T., Mountain Rd., Inglewood.
 2KW—Palmer, C. W., R.D. 2, Patea.
 2KX—Wickstead, C. G., 31 Pinny Avenue, Lower Hutt.
 2KY—Conner, M. G., 3 Oxford Cres., Upper Hutt.
 2KZ—Kingston, G., 53 Tannadys Street, Wellington 3.
 2LA—Dixon, R. A., 58 Auckland Street, Picton.
 2LB—Fouhy, W., 9 Te Ara Rd., Pukerua Bay.
 2LC—Leith, L. B., 19 Kowai St., Naenae.
 2LD—Westwood, E. N., 26 Ropata Cres., Lower Hutt.
 2LE—Pinhey, J., 210 Tukapa Street, New Plymouth.
 2LF—Guthrie, W. A., 27 Cook St., New Plymouth.
 2LG—Pierce, S. W., 1 Lemon Street, Otaki.
 2LH—Sharland, R. T., 409 Wakefield Quay, Nelson.
 2LI—
 2LJ—O'Grady, P. L., 8 Cambridge St., Tawa.
 2LK—Dance, W. E., 3 Kinloch Crescent, Blenheim.
 2LL—Ready, C. S., 22 Lyall Parade, Wellington 3.
 2LM—Merrick, L. F., 22 Bledisloe Ave., Nelson.
 2LN—Adams, C. L., 29 Paremata Street, Atawhai, Nelson.
 2LO—Walker, L. E. (Mrs), 5 Kingsley Place, Richmond.
 2LP—Wickham, H. W., 42 Wilford Street, Upper Hutt.
 2LQ—Phillips, E. L., Rapaura R.D., Blenheim.
 2LR—
 2LS—Steel, L. H., 12 Bayley St., Gisborne.
 2LT—England, G. E., 29 Horokivi Road, Wellington 4.
 2LU—Bustard, A. T., 27 Brook St., Lower Hutt.
 2LV—Maloney, K. A., 305 Lumsden Rd., Hastings.
 2LW—
 2LX—Motion, R., 5 View Road, Melrose, Wellington.
 2LY—Masters, W. C., 8 Waerenga Road, Otaki.
 2LZ—
 2MA—Cahill, E., 55 High Street, Motueka.
 2MB—
 2MC—Lawson, S. C., 19 Linton St., Blenheim.
 2MD—Mills, C. W., 23A Great North Road, Wanganui.
 2ME—
 2MF—O'Leary, B. J., 31 Durie Street, Wanganui.
 2MG—Waimarino Branch N.Z.A.R.T. (Trustee) G. W. Luscombe, Main Rd., Waiouru.
 2MH—Neal, E. W., 3 Dorset Way, Wilton, Wellington.
 2MI—Parsons, C. B., 84 Fraser Ave., Raroa, Johnsonville.
 2MJ—Smith, T. G., Kapuranga Grove, Stokes Valley, Wellington.
 2MK—Adams, J. A., 128 Moana Avenue, Nelson.
 2ML—Castles, C. R., 5 Dickson St., Gisborne.
 2MM—Adcock, H. F., Opaki Rd., Masterton.
 2MN—Meyer, L. H., 23 Canterbury Street, Tamatea, Napier.
 2MO—Johnston, R. W., 16 Duigan St., Gonville, Wanganui.
 2MP—Powell, W. G., Vogel St., Shannon.

ZL—
 2MQ—Crook, P. G., 303 S Nelson Street, Hastings.
 2MR—Blair, D. I., 9 Dickson Crescent, Wanganui.
 2MS—Thomassen, L. H., 5 Prince St., Feilding.
 2MT—Riddle, W. C. M., 27A Tennyson Avenue, Lower Hutt.
 2MU—Bell, S. M., 45 Renall Street, Masterton.
 2MV—Collins, V. B., 47 Golders Rd., Upper Hutt.
 2MW—Clark, M. J., Missell Street, Taihape.
 2MX—Bellini, B. C., 241 Hastings Street, Napier.
 2MY—Spackman, T. J., 9 Arawa Street, New Plymouth.
 2MZ—Pool, E. A. W., 18 Sussex St., Masterton.
 2NA—Shanks, J. M., 21 Pokohiwi Road, Normandale, Lower Hutt.
 2NB—Barlow, F. E., 15 Sutherland Crescent, Melrose, Wellington.
 2NC—Henderson, J., 16 College Street, Palmerston North.
 2ND—
 2NE—Cavanagh, K. J., 8 Windsor Terrace, Feilding.
 2NF—
 2NG—Aked, M. S., 10 Vacluse Ave., Paraparaumu Beach.
 2NH—Harper, J. F. H., 19 Rimu Rd., Kelburn, Wellington.
 2NI—Dumbleton, G. W., 88 Oriol Avenue, Tawa.
 2NJ—
 2NK—Johnson, K. G., 36 McKinley Street, Wellington 2.
 2NL—Clinch, V. J., 3 Huntleigh Park Way, Ngaio, Wellington.
 2NM—Matheson, G., 8 Bella Grove, Naenae, Lower Hutt.
 2NN—Pye, J. C., 33 Wyndham Rd., Pinehaven.
 2NO—Grace, K. E., 7 Hibiscus Grove, Lower Hutt.
 2NP—King, A., 124 Oxford Terrace, Lower Hutt.
 2NQ—Fairbrother, E. H., 132 Wellesley Rd., Napier.
 2NR—Rubery, T. F., 15 Bond Street, Marton.
 2NS—Douche, W. P., 12 Norris St., Taita, Wellington.
 2NT—Sutton, C. H., 6 Andrew St., Stoke.
 2NU—Budd, L. A., Tahuri St., Maniaia, Taranaki.
 2NV—Johnston, A. F., 168 Wellington Road, Paekakariki.
 2NW—
 2NX—Bell, L. G., 80 Seatoun Heights Rd., Wellington, E.5.
 2NY—Wigg, J. D., New Taihape Hotel, Hautapu St, Taihape.
 2NZ—
 2OA—Stannard, P. C., 15 Jordan Ter., Masterton.
 2OB—Pye-Smith, J., St. Arnaud, RMD, Nelson.
 2OC—
 2OD—Barnes, W. D., 142 Renall St., Masterton.
 2OE—Logan, D. J., Horokiwai Rd., Newlands, Johnsonville.
 2OF—Pentelow, L. C., Kina Rd., No. 1 R.D., Opunake.
 2OG—Chisnall, R. R., 19 Delhi Street, Wellington.
 2OH—McMillan, W. I., 7 Hillary St., Tawa.
 2OI—
 2OJ—Lavin, J. F., 59 Beauchamp St., Wellington.
 2OK—Dickson, A. J., 18 Manuka St., Palmerston North.
 2OL—Sigglekow, R. W., 251 Riddiford Street, Wellington.
 2OM—Blagdon, R. W., 12 Kandy Crescent, Ngaio, Wellington 4.
 2ON—Crooke, D. M., No. 3 Gate Pa Ave., RNZAF Base, Ohakea.
 2OO—Ellison, N. H., 2 Hildreth St., Wellington, W.3.
 2OP—Scambray, G. E., 54 Athlone Cres., Lower Hutt.
 2OQ—Prichard, G. H., 14 Queen's Rd., New Plymouth.
 2OR—Osborne, D., 9 Greenock Place, Palmerston North.
 2OS—Lonsdale, J., 41 Maxwell Avenue, Wanganui.
 2OT—Girling, J. R., 23 Miro Street, New Plymouth.
 2OU—Parminter, J. D., McLean St., Wairoa, Hawkes Bay.
 2OV—Lee, W. G., 11 Henderson Street, Karori, Wellington W.3.
 2OW—Forbes, W. D., 28 Strathmore Ave., Seatoun, Wellington, E.5.
 2OX—Turner, R., 4 Hector Grove, Trentham.
 2OY—
 2OZ—Martin, O. W., 13 Ellora St., Ngaio, Wellington, N.4.
 2PA—Leete, J. B., 22 Lansdowne Cres., Masterton.
 2PB—McLaren, H. B., 49 Green St., Tahunanui, Nelson.
 2PC—Mitchell, G. W., Waitohu Rd., York Bay, Wellington.
 2PD—
 2PE—Watkins, H. L., 73 Argyle Ave., Palmerston North.
 2PF—King, T., 126 Russell Street, Gisborne.
 2PG—Elliott, K. L., 126 Renown Road, Raumati South.
 2PH—Hanify, G. C. P., 18 Rangiora Ave., Kaiwharawhara, Wellington, N.3.
 2PI—Treleaven, A. R., 88 Monrad St., Palmerston North.

ZL—
 2PJ—Spellman, P. J., 36 Record Street, New Plymouth.
 2PK—Wilson, A. B., 15 Woodhouse Place, Napier.
 2PL—Young, C. T., 3A Princeton Road, Raumati Beach.
 2PM—Norman, J. N. M., 9 Hathaway Ave., Lower Hutt.
 2PN—Ferguson, T. A., Flat 15, Sirrus Flats, 6 Nuku Street, Wellington 3.
 2PO—Tout, R. E., 547 Rocks Road, Nelson.
 2PP—Sinclair, J. D. J., 13 Marlowe St., Stoke.
 2PQ—
 2PR—Nalder, R., 389 Palmerston Rd., Gisborne.
 2PS—Marett, D. K., 42 Wilford Street, Upper Hutt.
 2PT—Meyrick, B. B. P., 14 Churcher Street, Feilding.
 2PU—
 2PV—Molony, M., 66 Longfellow St., Upper Hutt.
 2PW—Vickers, E., 22 Marafahu St., New Plymouth.
 2PX—Taylor, M. F. W., 67 Cleary Street, Lower Hutt.
 2PY—Heslop, H. G., 18 Chamberlain St., Tahunanui, Nelson.
 2PZ—Russell, D. L., 38 Fraser Avenue, Johnsonville.
 2QA—Kermee, L. V., 16 Chittick Street, Stokes Valley.
 2QB—Trustum, H. N. J., 19 Priscilla Cres., Morningside, Wellington, S.W.1.
 2QC—Noble, W. A., 28A Avalon Crescent, Lower Hutt.
 2QD—de la Cour, C., 17 The Drive, Tawa.
 2QE—Byrn, H. L., 15 Macara St., Masterton.
 2QF—Hoy, F. H., Chester St., Patea.
 2QG—Brunton, W. R., 98 Hospital Road, Blenheim.
 2QH—Barnes, C. J., 8 Second St., Masterton.
 2QI—Cheesman, R. A., 20 Parkway, Wainuiomata.
 2QJ—
 2QK—Kenny, E. J., 5 Townley St., Gisborne.
 2QL—Neilson, L., 139 Buckley Rd., Wellington.
 2QM—
 2QN—Bornholt, A. V., Troon Cres., Lower Hutt.
 2QO—Alexander, K. G., 705 Tamatea Street, Hastings.
 2QP—Smith, W. E., 7 Fox Street, Opunake.
 2QQ—Cook, S. T., 57 Stanley Crescent, Nelson.
 2QR—Nolan, R., 26 Mitchell Street, Brooklyn, Wellington.
 2QS—Padman, N. B., 8 McHardy Street, Havelock North.
 2QT—Carran, D. O., 110 Hamilton Road, Wellington 3.
 2QU—Hitchins, M. J., Flat 38, 493 Adelaide Road, Wellington 2.
 2QV—Haynes, W. R., 77 Harrison St., Wanganui.
 2QW—Lynch, J. S., 40 Dublin St., Wanganui.
 2QX—Ryder, N. M., 67 Hutt Rd., Petone.
 2QY—
 2QZ—Hoare, D., 26 Ogilvie Terrace, Plimmerton.
 2RA—Petrie, B. J. N., 17 Glen Rd., Raumati South.
 2RB—
 2RC—Coakley, R. J., 413 Albert St., Palmerston North.
 2RD—Andrews, N. A., Wensley Rd., Richmond, Nelson.
 2RE—Hunter, W. R., 510 Frederick St., Hastings.
 2RF—Fletcher, A. E., 480 Ferguson Drive, Upper Hutt.
 2RG—Nunn, D. A., 8 Laurence Road, Napier.
 2RH—Munro, C. R., Holborn Parade, Foxton Beach.
 2RI—Savell, B. E., C/- R. L. Archibald, Moana Road, Eastbourne.
 2RJ—Inglis, W. I., 3 Kowhai St., Otaki Beach, Otaki.
 2RK—McKenzie, K., 17 Karepa St., Brooklyn, Wellington, S.W.1.
 2RL—Berg, L. B., 8 Waikere Avenue, Lower Hutt.
 2RM—Sumner, A. H., 17 Randwick Rd., Wellington W.2.
 2RN—Openshaw, J. E., 1051 Aberdeen Rd., Gisborne.
 2RO—Ashford, J. W., Coastal Highway, Mapau, Nelson.
 2RP—Goodger B. E. G., 15 Waterworth Avenue, Napier.
 2RQ—Small, J., 3 Bristol Street, Upper Hutt.
 2RR—Holland, A. J., 6 Talbot St., Wanganui East, Wanganui.
 2RS—Schdroski, W. R., 84 Strathmore Ave., Wellington, E.5.
 2RT—Jackson, H. R., Main North Road, Mokau.
 2RU—Rowe, I. S., 88 Washington Ave., Brooklyn, Wellington, S.W.1.
 2RV—White, R. E. W., 17 Scott Street, Wairoa.
 2RW—
 2RX—Randall, R. E. B., 4 Geddis Avenue, Maraenui, Napier.
 2RY—Robins, J. D., 2 Nikau Road, Pt Howard, Wellington.
 2RZ—Wall, A. M., "Glentui", Private Bag, Masterton.
 2SA—Hunt, P. W., 167 Albert Street, Palmerston North.
 2SB—Petherick, E. R., 36 Ngatitooa Street, Tawa, Wellington, 4.
 2SC—

ZL—

2SD—White, R. L., 74 Norbiton Road, Foxton.
 2SE—Daws, B. V., 53 Rangiora Street, Wanganui.
 2SF—Lewis, A. W., 15 Versailles Avenue, Wellington 5.
 2SG—Chatfield, D. J., 14 Bedford Street, Wellington, 5.
 2SH—
 2SI—Corkery, M. J., 204 Waterloo Road, Lower Hutt.
 2SJ—Wilson, T. D., 12 Bruce St., Masterton.
 2SK—Jamieson, L. I. D., 135 Thames Street, Ohakune.
 2SL—Clark, R. E., 10 Bould St., Johnsonville.
 2SM—Knox, G., 33 McGowan Street, Wainuiomata.
 2SN—Drumm, B. G., 8 McMahon Street, Stoke.
 2SO—McDonnell, D., 124 Cook St., Palmerston North.
 2SP—Pahiatua Branch N.Z.A.R.T. (Inc.), (Trustee) K. E. H. Murray, Main Rd. North, Pahiatua.
 2SQ—Ford, H. W., 13 Richmond St., Wanganui.
 2SR—Van Lear, J. R., 94 Karori Avenue, Wellington.
 2SS—Leydon, B. N., 8 Maire Street, Lower Hutt.
 2ST—Rolf, D., 12 Haydon Street, Palmerston North.
 2SU—Arnold, R. M., 14 The Quarterdeck, Whitby, Paremata.
 2SV—Searle, J. N. L., 61 Hay St., Naenae.
 2SW—Jury, G. V., 73 Wallace Place, New Plymouth.
 2SX—Andrews, D. V., 66 Khandallah Road, Wellington.
 2SY—Hartnell, L. W., 41 Kells Ave., Wanganui.
 2SZ—Pye, E. G. (Mrs), 33 Wyndham Road, Pinehaven, Upper Hutt.
 2TA—Lafferty, D. A., 188 Hanson Street, Wellington 2.
 2TB—Linney, E., 33 Garden Road, Naenae.
 2TC—Dale, K. W., 4 Foyle St., Wellington 2.
 2TD—Murphy, A., Haven Rd., Collingwood, Nelson.
 2TE—Ireson, S., 21 Woodleigh Street, New Plymouth.
 2TF—Anderson-Smith, W. J., 32 Londons Rd., Koro Koro, Petone.
 2TG—Woertendyke, H. D., 139 Maxwell Road, Blenheim.
 2TH—Weenink, H., 16 Mahoe St., Lower Hutt.
 2TI—Conner, D. P., 40 Marewa Rd., Hataitai, Wellington, E.2.
 2TJ—Ambury, H. A. V., 37 Egmont St., Kaponga.
 2TK—Evaroa, D. T., c/o. Himatangi Radio, Private Bag, Foxton.
 2TL—Wright, H. A. L., 130 Pukepapa Road, Marton.
 2TM—Du Four, J. G., 5 Seapoint Road, Napier.
 2TN—Brighting, T. L., 23 Raglan Avenue, Palmerston North.
 2TO—Waitara Branch NZART (Trustee) R. Terrill, Devon Road, Waitara.
 2TP—Pascoe, E. J., 22 Centennial Crescent, Gisborne.
 2TQ—Jensen, R. T., 33 Iona Rd., Havelock North.
 2TR—Laurie, G., Handyside St., Linden, Wellington.
 2TS—Nixon, H. W. J., Bay Drive, Titahi Bay, Wellington.
 2TT—Harlen, I. L. F., 13 Shearer Crescent, Waddington, Lower Hutt.
 2TU—Ellit, R. K., 8A Marama Crescent, New Plymouth.
 2TV—Boyer, J. P., 28 Beachville Crescent, Nelson.
 2TW—McCutcheon, O. D. F., C/- Mr W. T. Ennor, 27 Bowling Road, Greenmeadows.
 2TX—Scanlon, V. A., 80 Wilson Street, Hawera.
 2TY—Rothschild, P. H., 83 Pretoria Street, Lower Hutt.
 2TZ—Scott, L. V., 109 The Ridgeway, Wellington.
 2UA—Vickers, E. R., 87 Townsend Rd., Wellington, E.4.
 2UB—Lowe, J. M., 23 Te Whiti Road, Korokoro, Petone.
 2UC—St Clair, K. W., 70 Lees Grove, Wainuiomata.
 2UD—Rodda, P. J., Kapiti Island, Box 479, Paraparaumu Beach.
 2UE—Kibblewhite, K. W., 13 Rangitikei Street, Wanganui East.
 2UF—Cook, W. C., 8 Ponsonby Rd., Karori, Wellington.
 2UG—Richardson, A. S., 9 Rimu St., New Plymouth.
 2UH—Leslie, D. A., 2 Miles Crescent, Wainuiomata.
 2UI—Bailey, I. L., 57 Williams Street, Napier.
 2UJ—
 2UK—
 2UL—Hack, L. T., 61 Kahu Rd., Paremata.
 2UM—Hollard, C. S., Main Road, Urenui, R.D. 44, New Plymouth.
 2UN—Robinson, C. B., The Vicarage, Waverley.
 2UO—Ellison, W. L., 11 Meanee Quay, Napier.
 2UP—Pert, P. E., 11 Clyde Road, Wairoa.
 2UQ—Hayton, N. M., 80 Horoeka Street, Stokes Valley.
 2UR—Lockie, H. A., 70 Cashmere Ave., Wellington.

ZL—

2US—Gawn, J. E., 44 Lonsdale Crescent, Wellington 3.
 2UT—Etheridge, H. G., 18 Wellesley Rd., Napier.
 2UU—Hannah, R. J., 806 Dufferin St., Hastings.
 2UV—Kibble, A. R., Horokiki Hill, Petone.
 2UW—Naulls, R. D., 14 Miriona Grove, Paekakiriki.
 2UX—Walton, R. M., 5 Norman Street, New Plymouth.
 2UY—Parker, H. J., 15 Bush Street, Naenae.
 2UZ—
 2VA—Vaughan, D. L., Chaffey Cres., Titahi Bay, Wellington.
 2VB—Nix, G. C. P., 146 South St., Feilding.
 2VC—Austin, E. S., 4 Andrews Place, Wanganui.
 2VD—Tideman, A. L., Main Rd., Paramata.
 2VE—Hansen, G. H., 9 Sanders Avenue, Napier.
 2VF—Chapman, D. J., 33 Union Street, Palmerston North.
 2VG—McCarthy, A. C., 58 Beauchamp St., Linden.
 2VH—Upper Hutt Branch NZART (Trustee J. Meachen), Upper Hutt Civic Buildings, Upper Hutt.
 2VI—Manning, E. E., 77 Omata Road, New Plymouth.
 2VJ—Angelini, H. J., R.D. Pahiatua.
 2VK—Wallace, I. R., 28 Great North Road, Wanganui.
 2VL—Gisborne Branch N.Z.A.R.T., (Trustee E. J. Kenny), Club Rooms, A and P Showgrounds, Gisborne.
 2VM—Birse, K. C., School of Signals, Waiouru Mil. Camp.
 2VN—
 2VO—Hayman, G. C., 73 Makora Rd., Masterton.
 2VP—Cheshire, A. H., 5 Seddon St., Upper Hutt.
 2VQ—Shaw, J. E., 92 Waeranga Road, Otaki.
 2VR—Johnson, L. E. C., 45 Rawhiti Rd., Pukerua Bay.
 2VS—
 2VT—Bennett, W. R., 12 Moore St., Wanganui.
 2VU—Freeman, J. F., 4 Harbour Park Terrace, Wellington, 4.
 2VW—Gray, O. T., 16 Gonville Ave., Wanganui.
 2VX—Dickson, S., 67 Mills Rd., Wellington.
 2VY—Klein, B. J., 49 Milne Cres., Taika.
 2VZ—Eyles, J. R., 30 Surrey St., Richmond.
 2WA—Wellington VHF Group (Trustee, V. A. Stagpoole), 23 Horokiki Road, Newlands, Wellington.
 2WB—Wellington Branch NZART (Inc.), W. D. Gorman (Trustee), 140 Donald St., Karori, Wellington, W.3. (Portable).
 2WC—Crabtree, W. D., 73 Nelson Crescent, Napier.
 2WD—Deller, F. J. G., 5A Governor Road, Wellington.
 2WE—
 2WF—Chatfield, R. O., 20 Duncan Ter., Wellington, E.2.
 2WG—Nunns, H., 42 Norman Rd., Gisborne.
 2WH—McAulay, A. W., 151 Townsend Rd., Miramar, Wellington.
 2WI—
 2WJ—Ross, J. B., Moncrieff Ave., Tahunanui, Nelson.
 2WK—Hattersley, S. G., 15 Rata St., Nelson.
 2WL—Hurrell, L. W., 10 Norwich St., Wellington, N.2.
 2WM—Lagerstedt, E. C., 220 High St., Dannevirke.
 2WN—Batchelar, R. C., 39 Sheffield St., Palmerston North.
 2WO—Burnett, A. M. R., 77 Monro Street, Wellington 3.
 2WP—Ohakea Transmitting Club, RNZAF Base, Ohakea, (Trustee: A. G. F. Harding).
 2WQ—
 2WR—Wakeford, B., "Appledore", Nelson Road, Gisborne.
 2WS—
 2WT—Thomson, W. J., 33 Donald McLean St., Newtown, Wellington, S.1.
 2WU—Arnold, C. D., 50 Woodleigh Street, New Plymouth.
 2WV—Rowe, J. B., 49 Bayly Road, New Plymouth.
 2WW—
 2WX—Day, D. G., 106 Cleveland Ter., Nelson.
 2WY—
 2WZ—Edwards, S. St. D., 17 Walter Road, Lowry Bay, Wellington.
 2AAA—White, M. C., 117 Makora Rd., Masterton.
 2AAB—Cole, G. H., 26 Wensley Rd., Richmond.
 2AAC—
 2AAD—Bartlett, L. R., 9 Waverley St., Gisborne.
 2AAE—Kelling, A. R., 17 Pare St., Wainui Beach, Gisborne.
 2AAF—Duncan, R. E., 107 Ironside Rd., Johnsonville.
 2AAG—Barker, E. J., 12 Ashford Ave., Palmerston North.
 2AAH—Gibb, B. D., c/o. Himatangi Radio, P.B., Foxton.
 2AAI—
 2AAJ—Barkman, D. B., 64 Wairere Road, Wanganui.
 2AAK—Hubbard, J. A., 36 Queenswood Road, Levin.
 2AAL—King, K. U., 505 Fenwick St., Hastings.
 2AAM—Wilson, I. J., 85 Cracroft St., Waitara.

ZL—

2AAN—Thompson, R. N., 1010 Gordon Rd., Hastings.
 2AAO—Shackel, M. W. O., Longwood, R.D.1, Featherston.
 2AAP—Meek, P., 59 Alexander Avenue, Napier.
 2AAQ—Bate, W. I., 22 Gilbert Street, Blenheim.
 2AAR—Goodhue, T. J., 29 Emily St., Gisborne.
 2AAS—McCutcheon, H. A., 351 High Street, Dannevirke.
 2AAT—Mowat, K. H., 7 Fox Street, Wellington 4.
 2AAU—Starck, A. J., 25D Smart Road, New Plymouth.
 2AAV—Cooper, R. L., 33 Brooke Street, Waiouru (P.O. Box 158, Taihape).
 2AAW—Berdebes, P. G., 3 Wood Street, Palmerston North.
 2AAX—Martin, L. H., 64 Glen Rd., Stokes Valley, Wellington.
 2AAY—Turnbull, W. I., 5 Annandale Street, New Plymouth.
 2AAZ—Grundy, C. G., 119 East Frederick St., Mayfair, Hastings.
 2ABA—Harris, W. V., Stortford Lodge, Hastings.
 2ABB—Campbell, S. H., 28 Ashford Ave, Palmerston North.
 2ABC—Deynzer, G. M., 37A Heretaunga St., Petone.
 2ABD—Lowe, H. C., 12 Tasman Street, New Plymouth.
 2ABE—Erwood, E., 190 Waimea Rd., Nelson.
 2ABF—Foley, T. J., 115 Taradale Rd., Napier.
 2ABG—James, J. A., 6 Breakwater Road, Napier.
 2ABH—Chapman, A., 7 Raniera Street, New Plymouth
 2ABI—
 2ABJ—Napier Branch NZART (W. Forsyth, trustee), NZART Headquarters, Latham Street, Napier.
 2ABK—Jones, Mrs Y. F., 10 Christina Grove, Lower Hutt.
 2ABL—
 2ABM—Elvy, D. L., Flat 1, 231 Wilton Road, Wellington 5.
 2ABN—Marchant, H. G., 32 Swiss Ave., Wanganui.
 2ABO—Hughes, A. H., 117 Park Road, Palmerston North.
 2ABP—
 2ABQ—Keenan, D. St. J., 13 Ruru Crescent, Heretaunga Park, Silverstream.
 2ABR—Parkinson, J. H., 509A Fitzroy Ave., Hastings.
 2ABS—Trustum, E. G., 160 Marine Parade, Napier.
 2ABT—Turner, O. D., Tataramoa, Dannevirke.
 2ABU—Brereton, W. D. A., Ngatimoti, Nelson.
 2ABV—Cooper, P. A., Pukeora, Home for the Disabled, Waipukurau.
 2ABW—Steer, D. W., 205 Courtenay St., New Plymouth.
 2ABX—Bishop, R. T., 32 Auckland Rd., Greenmeadows.
 2ABY—Huggard, J. D., 15 Darnell Street, New Plymouth.
 2ABZ—Moore, J. A. W., 6 Hillary Street, Tawa.
 2ACA—Barnett, W. J., 68 Quebec Street, Nelson.
 2ACB—Pengelly, A. P., 56 Wilberforce St., Wellington, E.5.
 2ACC—Sutherland, J. M., 600 Pepper St., Hastings.
 2ACD—Corrie, R. D., Wiremu Road, R.D. 31, Opunake.
 2ACE—Greene, R. P., 17 Gorge Rd. West, Ngaio, Wellington.
 2ACF—Stagpoole, V. M., 23 Horokiwi Road, Newlands, Wellington.
 2ACG—Glassey, R. B., 422 Jackson St., Petone.
 2ACH—Robertson, B. R., 537 Ruahine Street, Palmerston North.
 2ACI—
 2ACJ—Watson, J. S., 24 Gardener Street, Levin.
 2ACK—Brown, R. W. N., 9 Duke Street, Pahiatua.
 2ACL—Larsen, G. A. J., 36 Cole St., Masterton.
 2ACM—Gore, C., Roberts Line, Bunnythorpe. (P.O. Box 40.)
 2ACN—
 2ACO—Jeffs, D. E., 132 Hill Road, Belmont, Wellington.
 2ACP—Brosnan, V. W., Wakarara, R.D.5, Waipawa.
 2ACQ—
 2ACR—Billing, D. B., 101 Rongotai Road, Kilbirnie, Wellington, E.3.
 2ACS—Cheyne, G. A., 15 Hobson Street, Levin.
 2ACT—Brown, J., Flat 5, Devon Street, Levin.
 2ACU—Finlay, P. A., 154 Parkvale Rd., Wellington, W.3.
 2ACV—Steel, J. R., 192 Coutts Street, Wellington 3.
 2ACW—Townsend, V. C., 18 Savage Crescent, Palmerston North.
 2ACX—Hart, F. M., 82 Oriol Avenue, Tawa.
 2ACY—Johnson, L. V., 62 Abbott St., Gisborne.
 2ACZ—Bickerstaff, R. R., 12 Enfield Rd., Napier.
 2ADA—Anderson, J. K., 1 McKenzie Ave., Napier.
 2ADB—

ZL—

2ADC—Weston, W. F., 35 Kummer Cres., Masterton.
 2ADD—Lund, O. M., 1 Cherry Grove, Strathmore, Wellington.
 2ADE—Turner, A. L., 25 Bentinck Ave., Wellington 3.
 2ADF—Borrett, D. W., 7 Victor St., Dannevirke.
 2ADG—Grainger, J. G., 142A Waimea Rd., Nelson.
 2ADH—Boyd, I. Mcl., 132 Wainuiomata Rd., Wainuiomata.
 2ADI—Blackwood, R. L., 37 St. John's Tce., Tawa.
 2ADJ—Billing, H. B., 8 Witaka Street, New Plymouth.
 2ADK—Smith, D. J., 35 Hamblyn Street, New Plymouth.
 2ADL—Gilbert, T. J., 5A Newbourne Crescent, Blenheim.
 2ADM—Smith, I. G., Hill View, Guppy's Rd., Greenmeadows, Napier.
 2ADN—Stuart, J. D., 11 Kipling St., Palmerston North.
 2ADO—Mercer, K. J., 27 Leeds St., Palmerston North.
 2ADP—Vile, M. E., 46 Ellesmere Avenue, Wellington 3.
 2ADQ—
 2ADR—Cosgrave, J. E., 18 Haydon St., Palmerston North.
 2ADS—Shearer, A. D., 100 Harper St., Wanganui.
 2ADT—Brown, W. C., 9 Rawhiti St., Nelson.
 2ADU—Renfrew, H. F., 12 Reynolds Road, Havelock North.
 2ADV—Murray, K. E. H., Albert St., Pahiatua.
 2ADW—Lawrence, A. F., 9 Burn Street, Levin.
 2ADX—Smith, I. M., 23 Johnston St., Foxton.
 2ADY—Blaikie, J., 36 Parker Street, Blenheim.
 2ADZ—Renner, W. G., C/o Post Office, Ormond.
 2AFA—Lacey, A. R., Monrad St., Palmerston North.
 2AFB—Burr, A. J., 25 Waiwera Place, New Plymouth.
 2AFC—Burr, M. K., 414 Stokes Valley Rd., Stokes Valley.
 2AFD—Dolman, P. A., 30 Tennyson St., Stoke.
 2AFE—Walkington, C. R., 22A Ruahine Street, Paraparaumu.
 2AFF—Pugh, A. G. E., 6 Smith Street, Paekakariki.
 2AFG—King, M. J., 5 Mantell Street, Seatoun, Wellington.
 2AFH—Hill, J., 35 Fleet St., Masterton.
 2AFI—
 2AFJ—Clark, F. R., Venice St., Martinborough.
 2AFK—Dunn, J. R., 82 Oriental Parade, Wellington.
 2AFL—Jordon, N., 18 Aurora St., Petone.
 2AFM—
 2AFN—MacLean, A. K., Hukaroa Rd., Raetihi.
 2AFO—Burney, R. J., 115 Kowhai St., Nae Nae.
 2AFP—Wassilieff, C., 98 Church Street, Palmerston North.
 2AFQ—Lawson, E. J., 22 Byron St., Upper Hutt.
 2AFR—Ramsay, K. A., 63 Mein Street, Wellington.
 2AFS—Chew, L. R., 14 Hursthouse St., New Plymouth.
 2AFT—Anderson, B. P., 431 Albert St., Palmerston North.
 2AFU—Udy, H. A. F., R. D. 7, Pahiatua.
 2AFV—Titahi Bay Branch NZART (Trustee, R. S. H. Morgan) Tireti Hall, Titahi Bay.
 2AFW—Jones, B. N., 13 Taupata St., Castlecliff, Wanganui.
 2AFX—Crane, G. S., 18 Glenamoy Crescent, Johnsonville.
 2AFY—Smith, I. M., Hinerangi Rd., Hatuma, Waipukurau.
 2AFZ—Studd, G. C., 48 Nuffield Ave., Napier.
 2AGA—Warner, J. W., 22 Norman Road, Gisborne.
 2AGB—Martelletti, G. P., 44 Kapuni Street, Manaia.
 2AGC—Waldmann, K. J., 1 Rose Flats, Totara St., Trentham.
 2AGD—Keilar, J. M., 222 Tremaine Ave., Palmerston North.
 2AGE—Mouritsen, J., 14 Ashridge Road, Napier.
 2AGF—Budd, W. G. J., 32 Paynter's Ave., Fitzroy, New Plymouth.
 2AGG—Graham, S. C., 2 Drake Street, Feilding.
 2AGH—Marshall, A. W., 1203 Ada Street, Hastings.
 2AGI—Giles, F. A., 1006 Sussex Street, Hastings.
 2AGJ—Nicol, L. W., Hill Road, Pauatohanui.
 2AGK—Ferguson, J. R., 1235 Taita Drive., Lower Hutt.
 2AGL—
 2AGM—Dannevirke Branch NZART, Cnr. Princess and Queen Streets, Dannevirke.
 2AGN—
 2AGO—Wadham, C. W., 195 Oxford St., Lower Hutt.
 2AGP—Weir, D. G., 23 Hinau Grove, Wainuiomata.
 2AGQ—O'Brien, P. M., Kereru Road, Days Bay, Eastbourne.
 2AGR—Williams, R. L., 15 Pinney Ave., Lower Hutt.
 2AGS—
 2AGT—Wright, J. M., 18 Treganna St., Castlecliff, Wanganui.
 2AGU—Steel, G. J., Cnr Arataki and Te Mata Roads, Havelock North.
 2AGV—Cain, M. C., 83 Aro Street, Wellington 2.
 2AGW—Clapham, H. B., Mulgrave St., Ashhurst.
 2AGX—Hopkins, C. E. C., No. 2 R.D., Makairo, Pahiatua.
 2AGY—Marr, A. H., Central Police Barracks, Wellington.
 2AGZ—Grey, P. S., Havelock Rd., Havelock North.
 2AHA—Wilkey, T. G., 13 Hale Street, Blenheim.

ZL—

2AHB—Bowater, S. J., 26 Marshall St., Wellington, W.3.
 2AHC—White, S. J., 6 Wattle Grove, Maungaraki, Lower Hutt.
 2AHD—Fowler, M. F., 3 North Esk Street, Nelson.
 2AHE—
 2AHF—Duthie, D. A., Aropiri, Burnside Avenue, R.D.2., Blenheim.
 2AHG—McCormick, J. D., 38 Puriri Street, Lower Hutt.
 2AHH—Bint, T. E., 53 Trewavas Street, Motueka.
 2AHI—Woodford, L. A., 161 Darlington Road, Wellington 3.
 2AHJ—Ward, J. D., 992 Tremaine Ave., Palmerston North.
 2AHK—Knofflock, T. C., 41 Scotland Street, Picton.
 2AHL—Harris, F. C., 53 Friars Rd., Milson, Palmerston North.
 2AHM—Smith, R. A., 121 Slacks Road, Palmerston North.
 2AHN—Ashley, R. A., 36 Matai Road, Wellington 3.
 2AHO—Owen, D. W., 12 Whirinaki St., Upper Hutt.
 2AHP—Smith, L. W., 192 Courts St., Kilbirnie, Wellington, E.3.
 2AHQ—Hyde, A. S., Julyan St., Shannon.
 2AHR—Webb, P. J., 332 The Parade, Island Bay, Wellington 2.
 2AHS—Dallas, S., 96 Te Anau Rd., Wellington, E.2.
 2AHT—Frost, H. A., 77 Meeanee Road, Taradale.
 2AHU—O'Hara, E. R., "Omega", Ngaumu Road, Masterton.
 2AHV—Cook, J. A., 16 Rui St., Tahunanui, Nelson.
 2AHW—Russell, S. J., 511 Grays Rd., Hastings.
 2AHX—Greaney, E. C., 168 Waghorne Street, Napier.
 2AHY—Howard, C. B., 19 Queen Street, Dannevirke.
 2AHZ—Howell, L. I., 63 Marine Parade, Napier.
 2AIA—Carter, L. J., 28 Rimu Street, Waikanae.
 2AIB—Campbell, W. A., 212 Colombo Road, Masterton.
 2AIC—Drogemuller, C. H., 25C Egmont Street, Wanganui.
 2AID—Railton, G. H., 7 Konini Grove, Raunati.
 2AIE—Graham, T. C., 5 Camperdown Road, Wellington.
 2AIF—Archer, R. W., 20 Snowden Ave, Palmerston North.
 2AIG—Catt, G. D., 11 Taverner Street, Carterton.
 2AIH—
 2AIJ—
 2AIK—Paris, E. G., 18 York St., Masterton.
 2AIL—Duncan, A. M., 7 Highbury Crescent, Wellington, 5.
 2AIM—Nelson, A. E., South Belt, Masterton.
 2AIN—Muir, R. J., 16 Amberley Grove, Lower Hutt.
 2AIO—James, L. A., 21 Adams Lane, Blenheim.
 2AIP—Watkins, A. C., Upper Kawhatau, Mangaweka.
 2AIQ—Curry, R. G., 2 Hurman Street, Wellington 5.
 2AIR—Harvey, S. C., 802 Clive St., Hastings.
 2AIS—Cramer, F. H., James St., Inglewood.
 2AIT—No. 23 Nelson Squadron A.T.C. (Trustee, G. R. Stiles), Vanguard Street, Nelson.
 2AIU—Jepsen, N. M., R.D. 1, Peterson Road, Palmerston North.
 2AIV—Mitchell, W. J., 52 Locking Street, Nelson.
 2AIW—Sutherland, I. R., 61 Elizabeth Street, Blenheim.
 2AIX—
 2AIY—Hunter, G. L., 1 King St., Nelson.
 2AIZ—Wright, L. L., 21 Robert St., Newlands.
 2AJA—Plum, B. F., 31 Kawai St., Nelson.
 2AJB—Hodge, L. D., 23 Kent Cres., Palmerston North.
 2AJC—Corroll, E. J., 13 Haig St., Lower Hutt.
 2AJD—Dodds, J. F., Upper Moutere, Nelson.
 2AJE—Carpenter, E. D., 27 Selwyn Road, Napier.
 2AJF—Vernon, J. H., 130 Mairangi Rd., Wellington.
 2AJG—Giblin, A. G., Wensley Rd., Richmond, Nelson.
 2AJH—
 2AJI—Isles, J. W., 55 Elbourne Street, Taradale.
 2AJJ—France, A. R., 137 Lytton Road, Gisborne.
 2AJK—Martin, E. O., 36 Poto Rd., Lower Hutt.
 2AJL—Sutherland, D. C., Warrigate Rd., R.D., Wanganui.
 2AJM—Cooksley, G., 4 Roy St., Palmerston North.
 2AJN—Heinz, D. P., 56 Tukuka St., Nelson.
 2AJO—Scott, A. D., 7 Kenmore St., New Plymouth.
 2AJP—Vartha, I. R., 7 Collett St., Lower Hutt.
 2AJQ—Complier, J. C., 35 Endcliffe Road, Gisborne.
 2AJR—Teward, G. J., 12 Overtoun Ter., Wellington, E.2.
 2AJS—Wanganui Boys' College Radio Club (Trustee: M. J. Beale), Ingestre Street, Wanganui.
 2AJT—Hutt Valley Memorial Technical College Radio Club, (Trustee), A. F. Cresswell, Buick St., Petone
 2AJU—Johnston, A. H., 195 Hampden Ter., Nelson.
 2AJV—Small, I. R., 207 Tudor Ave., Hastings.
 2AJW—Bradshaw, A. B., 12 Leona Way, Wellington 4.

ZL—

2AJX—Broughton, W. A., 46 Rongopai St., Palmerston Nth.
 2AJY—Gallagher, B. G., 127 Jackson Street, Petone.
 2AJZ—Wellington Polytechnic Radio Society (Trustee) R. N. McDonald, Tasman Street, Wellington.
 2AKA—Ribbon, C. E., 34 Abbott St., Gisborne.
 2AKB—McMaster, A. J., 18 Princess St., Martinborough.
 2AKC—
 2AKD—Faulding, R. G., 5 Manuka St., Palmerston North.
 2AKE—Watson, M. B., 25 Milne St., Marton.
 2AKF—Peffer, W. F., 12E City View Road, Lower Hutt.
 2AKG—McGonigal, J. W. R., "Braeburn", Patoka, Hawke's Bay.
 2AKH—Hayward, W. B., 135 Washington Road, Nelson
 2AKI—Armstrong, G. C., 5 Darlington Rd., Miramar, Wellington, E.4.
 2AKJ—Smith, K. J., 5 Kahikatea Grove, Newlands, Wellington 4.
 2AKK—Simpson, M. C., 8 Warwick Street, Nelson.
 2AKL—Howard, W. S., Stoney Creek Rd., Bunnythorpe.
 2AKM—
 2AKN—
 2AKO—Oakley, J. W., Dale Rd., Raumati South.
 2AKP—Silverstream College Radio Club (Trustee) J. P. Allardyce, St. Patrick's College, Silverstream.
 2AKQ—Littleford, R. H., 4 Parnell Street, Lower Hutt.
 2AKR—Roberts, E., 116 Kowhai Street, Lower Hutt.
 2AKS—Taylor, D., 31 Ahuriri St., Wellington.
 2AKT—Bundle, R. J., Mahoe St., Linden, Wellington.
 2AKU—Gordon, I. R., 105 Te Anau Rd., Hataitai, Wellington.
 2AKV—Copeland, R. N., 11 Te Puni Grove, Upper Hutt.
 2AKW—King, T. C., 70 Chelmsford Street, Wellington 4.
 2AKX—Morris, E. C., 3 Peel Place, Wainui-O-Mata.
 2AKY—Comber, C. M., 54 Reid Avenue, Hawera.
 2AKZ—Borden, T. W. A., Harris St., Waitara.
 2ALA—
 2ALB—Wilkins, R. D., 5 Hartley Place, Palmerston North.
 2ALC—Maxwell, H. J., 7 Rakeiora Grove, Korokoro.
 2ALD—Donkin, E. N. R., 21 Te Aute Rd., Havelock North.
 2ALE—Roberts, A. L., Miller Rd., Havelock North.
 2ALF—
 2ALG—Fredericksen, C. A., 18 Champion Terrace, Nelson.
 2ALH—Imlay, B. W., 46 Tilbury Street, Lower Hutt.
 2ALI—Lacy, K. M., 33 Tawa Terrace, Tawa.
 2ALJ—Fletcher, A. B., 121 Hataitai Road, Wellington 3.
 2ALK—Borlase, R. C., 289 Fitzherbert Avenue, Palmerston North.
 2ALL—Tompkins, A. W., Rangiwahia.
 2ALM—Lovegrove, P. J., St Vincent Street, Nelson.
 2ALN—
 2ALO—Forsyth, W., 3 Meeanee Quay, Westshore.
 2ALP—Paton, P. J., 98 Severn Street, Wellington 2.
 2ALQ—Appleton, J. W., 17 Bone Cres., Hawera.
 2ALR—Brennan, P. J., 39 Swansea Rd., Stratford.
 2ALS—Morris, R. A., 16 Bristol Cres., Lower Hutt.
 2ALT—Palmer, G. C. H., Ball Road, Alton, R.D. 2, Patea.
 2ALU—Turnham, P. E., 31 Witako Street, Lower Hutt.
 2ALV—
 2ALW—Barnett, L. J., 4 Parkway, Wainuiomata.
 2ALX—Tarrant, G. W., 124 Ironside Rd., Johnsonville.
 2ALY—Walker, C. M., 39 Rueben Avenue, Wellington 2.
 2ALZ—Healey, G. W. R., 78 Sidlaw St., Strathmore Park, Wellington.
 2AMA—Millman, C. P., 126A Muritai Road, Eastbourne.
 2AMB—Chinery, P. R. J., 192 High Street, Eltham.
 2AMC—Graham, E. W., 10 Somes Cres., Newlands, Wellington.
 2AMD—Greenall, D. H., 1 Gloucester St., Upper Hutt.
 2AME—Heath, C. A., 9 Patutu Grove, Upper Hutt.
 2AMF—Baxendale, A. S., Flat C, 21 Walters Street, Lower Hutt.
 2AMG—Wensley, L. A., 7 Fry St., Motueka.
 2AMH—Dew, E. E., 47 McHardy Street, Havelock North.
 2AMI—Stewart, R. G., 105 Orangi Kaupapa Road, Wellington.
 2AMJ—Johnson, J. F. C., 15 Byron Street, Upper Hutt.
 2AMK—Vendt, G. R., 55 Waldegrave Street, Palmerston Nth.
 2AML—Lord, C. L., 2 Ascot St., Palmerston North.
 2AMM—Morris, S. J., 1 Sidlaw Street, Wellington.
 2AMN—Maney, P. E., 6 Norfolk Street, Wainuiomata.
 2AMO—McIver, P. D., 75 Brightwater Terrace, Palmerston North.

ZL—

2AMP—Fretter, M. E., 10 Walker Place, Wanganui East.
 2AMQ—Nicholls, C. A., 16 Dorset Street, Palmerston North.
 2AMR—Feilding & Districts, Radio Club (Trustee J. R. Bould), 80 Kimbolton Road, Feilding.
 2AMS—Morganti, L. R., 9 Wentworth St., Wellington.
 2AMT—Garmonsway, T. L., "Hiria", Rangiwaea, Taihape.
 2AMU—Ashe, D. A., 34 Wai-iti Cres., Lower Hutt.
 2AMV—Mudford, D. W., 13 Caxton Street, Onekawa, Napier.
 2AMW—Hobman, R. V., 9 Holdsworth Ave., Trentham.
 2AMX—Wiggins, H., 178 Wadestown Rd., Wellington.
 2AMY—Berry, E. H. J., Clive Sq., Napier.
 2AMZ—Humphris, G. J., 18 Horokiwi Road, Newlands, Wellington.
 2ANA—Neilson, A. K., 13 Matene Street, Otaki.
 2ANB—Fenton, F. A., 27 Blake St., Waitara.
 2ANC—Watkins, W. T., 218 St. Aubyn St., New Plymouth.
 2AND—Wallace, R. I., Fox St., Featherston.
 2ANE—Cooney, J. L., 53 Wainuiomata Rd., Wainuiomata.
 2ANF—Martin, R. W., 105 Moana Ave., Nelson.
 2ANG—Badman, R. G., 96 Kenmore Street, Wellington 4.
 2ANH—Hoskin, J. C., 30 Clearmont Crescent, New Plymouth.
 2ANI—McLeod, S. A., 4 Trevelyan St., Onekawa, Napier.
 2ANJ—Miller, R. E., 57 Lyndhurst Street, Palmerston Nth.
 2ANK—Johnson, J. F., 90 McLeod St., Upper Hutt.
 2ANL—McNeill, J. H., 23 Egmont Street, Patea.
 2ANM—Butler, R. J., 1A Blake Street, Waitara.
 2ANN—Rahotu Coastal Branch N.Z.A.R.T. (Inc.) (Trustee, c/o L. C. Pentelow), Kina Rd., Opunake.
 2ANO—Sloane, J. P., 44 Duthie Street, Wellington, 5.
 2ANP—Williamson, J. J., Waituna, No. 10 R.D., Feilding.
 2ANQ—
 2ANR—
 2ANS—Martin, D. W., Avenue Rd., Greenmeadows.
 2ANT—Bilderbeck, B. T., 131 Clyde St., Island Bay, Wellington.
 2ANU—Bennett, K. P., 6 Arundel Place, Wanganui.
 2ANV—
 2ANW—White, R. W., 10 Wairere Rd., Wanganui.
 2ANX—
 2ANY—Jury, A. V., Kirai, Makahu, via Stratford.
 2ANZ—Barber, V. L., 36 Roslyn Rd., Napier.
 2AOA—Scheffer, W. M., 95 Wellington Rd., Wainuiomata.
 2AOB—Overton, F. H., 98 Strathmore Ave, Wellington 3.
 2AOC—Hamilton, A. M. M., 35 Ngaio Road, Kelburn, Wellington 5.
 2AOD—Catterall, J. A., Parkers Rd., Tahunanui, Nelson.
 2AOE—
 2AOF—Reardon, V. W., Autler Road, Manaia.
 2AOG—Green, G. R., 16 Moeller St., Taradale.
 2AOH—Salmon, K. J., 35 Station Road, Marton.
 2AOI—Malkin, E., 1007 Konini Street, Hastings.
 2AOJ—
 2AOK—Ross, D. H., 73 Amohia St., Paraparaumu.
 2AOL—Robinson, J. R., 51 Queens Road, Nelson.
 2AOM—Crook, P. M., 6 Bale Place, Havelock North.
 2AON—Harding, A. G. F., 54 Devon Crescent, Bulls.
 2AOO—Fraser, J. G., 11 Karamea Cres., Palmerston North.
 2AOP—Mackintosh, A. B., 34 Marian Drive, Gisborne.
 2AOQ—Moodie, L. S., 9 Upland Road, Wellington, 5.
 2AOR—Harris, G. S., 160 Park Rd., Palmerston North.
 2AOS—
 2AOT—Graham, P. A., 10 Morse Street, Napier.
 2AOU—Marlborough Branch NZART (Inc.) (Trustee, W. I. Bates), 35 Dillon Street, Blenheim.
 2AOV—Morrison, I. M., 54 Delhi Crescent, Wellington 4.
 2AOW—Purvis, R. H., 3/6 Terrace Gardens, Wellington 1.
 2AOX—Belt, R. D., 20 Medway Street, Island Bay, Wellington.
 2AOY—Robertson, J. G., 21 Liverpool Street, Levin.
 2AOZ—Davidson, W. E., No. 10 R.D., Palmerston North.
 2APA—Ekdahl, C. D., 55 Camberwell R.D., Hawera.
 2APB—

ZL—

2APC—Burton, H., 34 Hathaway Avenue, Wellington, 5.
 2APD—
 2APE—Parnell, J. C., 87 Duncan Ter., Wellington.
 2APF—Lusty, F. W., High St., Waitara.
 2APG—Sutherland, N., 75 Weld St., Wellington.
 2APH—Haisman, R. A., 27 Valley Road, Gisborne.
 2API—Edwards, G. R. J., 4 Pascal St., Palmerston North.
 2APJ—Vaughan, R. G., 7 Dale Road, Raumati South.
 2APK—Campbell, E. P., 407 Frimley Place, Hastings.
 2APL—Westwood, I. J., 47 Manawatu St., Palmerston North.
 2APM—Parker, T. C., 5 Damian Grove, Lower Hutt.
 2APN—
 2APO—Mellor, G. W., 16 King St., Upper Hutt.
 2APP—Donkin, A. E., 12 Laura Ave., Brooklyn, Wellington.
 2APQ—Aydin, A., 93 Grove St., Nelson.
 2APR—Pope, T. R., 5 Montgomery Place, Lansdowne, Masterton.
 2APS—
 2APT—
 2APU—Patea Branch, N.Z.A.R.T., (Trustee: F. H. Hoy), Chester Street, Patea.
 2APV—Jamieson, J. C., 31 David St., Westown, New Plymouth.
 2APW—Vickerman, J. R., 9 John St., Titahi Bay.
 2APX—O'Dwyer, M., 135 Guppy Road, Taradale.
 2APY—Hartwig, G., 42 Mulgrave Street, Ashhurst.
 2APZ—
 2AQA—Allen, D. B., 12 High St., Waitara.
 2AOB—Burridge, R. H., 470 Atawhai Drive, Nelson.
 2AQC—Doyle, D., 47 Cashmere Avenue, Khandallah, Wellington.
 2AQD—
 2AQE—
 2AQF—
 2AQG—
 2AOH—
 2AQI—Cheyne, J. A., 12 Aberdeen Avenue, Palmerston North.
 2AQJ—Mount St. Mary's Radio Club (Trustee: P. Devlin), Mt. St. Mary's, Greenmeadows.
 2AQK—Miller, H. R., 47 Dawson Street, Waiouru.
 2AQL—
 2AQM—
 2AQN—Heald, P. J., 11 Avion Terrace, Paraparaumu.
 2AQO—Wilson, K. A. (Mrs), 80 Wycliffe Street, Onekawa, Napier.
 2AQP—Clouston, T. W., 28 Fox St., Opunake.
 2AQQ—
 2AQR—Crawley, R. J. C., 301 Charles Street, Hastings.
 2AQS—Nasmith, G. G., 10 Tawa St., Inglewood.
 2AQT—Gabb, K. J., 2 Beth St., Trentham.
 2AQU—Woertendyke, A. B., 139 Maxwell Road, Blenheim.
 2AQV—Smith, R. E., 8 Dell Road, Raumati South.
 2AQW—Lang, D. J. H., 6 McDonald St., Taita, Lower Hutt.
 2AQX—MacArtney, R. A., 56 Glasgow Street, Wanganui.
 2AQY—Olson, E. L., Flat 2, 377 Broadway South Stafford.
 2AQZ—Edgecombe, C. J., Ngawhini Rd., Ararata R.D., Hawera.
 2ARA—Buckley, R., 30 Sackville Street, New Plymouth.
 2ARB—Davies, J., 19 Titoki St., Gisborne.
 2ARC—Christie, R. F., 259 Cambridge Street North, Levin.
 2ARD—Schofield, D. T., 34 Kiwi Road, Raumati.
 2ARE—
 2ARF—Thane, J. S., 6 Park Street, Palmerston North.
 2ARG—Nelson Branch NZART (Inc.), J. A. Catterall (Trustee), Club Rooms, Maitai Valley Rd., Nelson.
 2ARH—Haag, W. K., 7 Naughton Terrace, Wellington.
 2ARI—Rushton, F., 7 Dodsons Valley, Nelson.
 2ARJ—Stidolph, S. R., Weraroa, Levin.
 2ARK—Wilkins, R. R., 919B Nelson Street North, Hastings.
 2ARL—
 2ARM—Peel, J. S., 2 May Ave., Napier.
 2ARN—Stewart, G. D., 3 Kandy Crescent, Simla Park, Ngaio.
 2ARO—
 2ARP—Collins, R. J., 19 Ashford St., Wainuiomata.
 2ARQ—Curanui College Radio Club (Trustee) D. J. Clements, Greytown.
 2ARR—Watson, I. B., 15 Bells Road, Linton Camp.
 2ARS—
 2ART—McQuinlan, T., 6 Whanake St., Tihi Bay.
 2ARU—Hawke, M. A. (Miss), 19 Roosevelt Street, Levin.
 2ARV—Black, R. C., 10 Tainui St., Stoke, Nelson.

ZL—

2ARW—Williams, P. R., 15 Pinny Avenue, Lower Hutt.
 2ARX—Pomfret-Brown, G. E., 16 Derby St., Stoke, Nelson.
 2ARY—Kenealy, T. W., 61 Seaview Rd., Paremata.
 2ARZ—Collins, J. L., 473 Stokes Valley Road, Stokes Valley.
 2ASA—Sainsbury, J. R. D., 44 Warwick St., Wellington 5.
 2ASB—Anderson, N. H., 108 Mt View Road, Wanganui.
 2ASC—Denton, R. J., 17 Rangiora Ter., Tahunanui, Nelson.
 2ASD—Darby, A. R., 63 Plateau Road, Te Marau, Upper Hutt.
 2ASE—Williams, R. B., 77 Coast Rd., Wainuiomata.
 2ASF—Fogerty, S. F., Douglas Road, Motueka.
 2ASG—Waterall, T. H., 26 William St., Hataitai, Wellington, E.2.
 2ASH—Clark, B. S., 359 Muratai Road, Eastbourne.
 2ASI—Law, A., 134 Brougham Street, Wellington 1.
 2ASJ—Shepherd, E. R., 203 Park Road South, Hastings.
 2ASK—
 2ASL—Leitch, J. H., 91 Kent Street, Carterton.
 2ASM—
 2ASN—Soughton, R. G., 29 Moore Street, Featherston.
 2ASO—Sewell, R. J., 63 Hair Street, Wainuiomata.
 2ASP—Colquhoun, T. R., 39 Melrose St., Island Bay, Wellington.
 2ASQ—Hudson, D. S., 296 Stokes Valley Road, Stokes Valley.
 2ASR—Gill, A. H., Rowes Road, Havelock North.
 2ASS—
 2AST—Groombridge, J. E., 15 Oakleigh St., Lower Hutt.
 2ASU—Hickman, J. R., Flat 1, 22 Maple Grove, Wellington 2.
 2ASV—Lynneberg, R., 8 John St., Titahi Bay, Wellington.
 2ASW—Avery, G. S., Camerons Line, Feilding.
 2ASX—Quinney, W. F. G., 407 Nottingly Road, Hastings.
 2ASY—Currie, R. G., 75 Hair St., Wainuiomata.
 2ASZ—Roatz, H. E., 114 Kowhai Street, Naenae.
 2ATA—Martin, C. J., 205 Park Road North, Hastings.
 2ATB—Blackwell, F. N., 103 Kenmore St., Newlands.
 2ATC—Watkins, J. L., Mangaweka.
 2ATD—Kent, R. C. H., 9 Julian Street, Blenheim.
 2ATE—
 2ATF—Knox, C. P., 7 Strathspey, Martinborough.
 2ATG—
 2ATH—Morgan, I., 24 Poole Cres., Wainui-O-Mata.
 2ATI—Weeks, B., 4 Oriel Avenue, Tawa.
 2ATJ—Trye, M., 12 Aubrey Street, New Plymouth.
 2ATK—Williams, V. V. H. (Mrs), Atkins Road, Patutahi (P.O. Box 78).
 2ATL—Williams, C. M., Atkins Rd, Patutahi (P.O. Box 78).
 2ATM—Aplin, E. L., 16 Kaka Street, Masterton.
 2ATN—Casey, S. F., 45 Ames Street, Paekakariki.
 2ATO—Oborn, L. E., 91 Norton Park Grove, Lower Hutt.
 2ATP—Maynard, K. F., 327 Willis St., Wellington.
 2ATQ—No. 21 Squadron Air Training Corps Radio Club (Trustee W. B. French), Cornwall Place, Masterton.
 2ATR—Edmundson, E. D., 5 Telford Ter., Oriental Bay, Wellington.
 2ATS—Carter, J. A. (Miss), 41 Hyde Street, Wainuiomata.
 2ATT—Thompson, A. J., 37 Gladstone St., Feilding.
 2ATU—Meeking, L., 32 Poole St., Feilding.
 2ATV—Clench, H. J., 27 William St., Petone.
 2ATW—Lang, W. J., 138 Buick Cres., Palmerston North.
 2ATX—Haskell, E. H. E., 11 Weka Place Masterton.
 2ATY—
 2ATZ—Shortall, J. P., 19 Ferguson Street, South Bayview, Napier.
 2AUA—Wilson, R. W., 15 North Esk Street, Nelson.
 2AUB—
 2AUC—Keegan, R. J., 19 Galway Avenue, Palmerston North.
 2AUD—Gray, I. T., 5 Andrew Street, Blenheim.
 2AUE—King, A. M., 210 Cuba Street, Wellington.
 2AUF—Means, C. B., Milners Line, Glen Oroua, R.D.3, Palmerston North.
 2AUG—Farquharson, W. L., 1056 High St., Wingate, Lower Hutt.
 2AUH—Pool, B. L., 9 Rembrandt Avenue, Linden.
 2AUI—Rowlands, R. E., 159 Hanson Street, Wellington, 2.
 2AUJ—Catchpole, D., 81 Seatoun Heights Road, Wellington 3.
 2AUK—Jones, P. M., 6 Rosendale Avenue, New Plymouth.
 2AUL—Bird, J. W., 131 Whites Line East, Lower Hutt.
 2AUM—Shrimpton, H. N., 89 Green Street, Tahunanui.

ZL—

2AUN—Hume, S. T., 9 Vennell Street, Wellington 2.
 2AUO—Bould, J. R., 16 Carthew Street, Feilding.
 2AUP—Baker, P. N., 14 John St., Titahi Bay, Wellington.
 2AUQ—Bence, R. E., 53 Holdsworth Avenue, Upper Hutt.
 2AUR—Wallis, G. A., 23 Bruce Avenue, Wellington 2.
 2AUS—Stewart, B. E., 37 Quick Avenue, Wanganui.
 2AUT—Morton, L. W., Main Road, Akatarawa.
 2AUU—Norman, A. R., 18 Rossiter Ave., Lower Hutt.
 2AUV—Rockell, J. E., 22 Hinau St., Linden.
 2AUW—Nash, A. L. J., 27 Kitchener Ter., Raroa, Johnsonville.
 2AUX—Sellen, F. T., 5 Bay View Road, Napier.
 2AUY—Murphy, N. J., Flat 4, 27 Beach Rd., Paekakariki.
 2AUZ—Blair, R. L., 12 Cleland St., Palmerston North.
 2AVA—
 2AVB—Horgreaves, A. P., 87 Bridge St., Eltham.
 2AVC—Wickens, J. R., 9 Fleet St., Masterton.
 2AVD—
 2AVE—Fittis, A. H., 98 Muller Rd., Blenheim.
 2AVF—Gibbs, L. V., Makara Radio, Private Bag, Karori.
 2AVG—
 2AVH—
 2AVI—Anderson, E. S., 14 Seaview Crescent, Picton.
 2AVJ—Bowie, C. T. H., 17 Coates St., Linden.
 2AVK—Kane, D., 11 Bay St., Petone.
 2AVL—Luscombe, G. W., Main Rd., Waiouru.
 2AVM—Morris, R. H. C., 169 Cockayne Road, Wellington 4.
 2AVN—
 2AVO—
 2AVP—Roylands, D. M., Landsroy Poultry Farm, Ohariu Valley, Johnsonville.
 2AVQ—Dement, F. W. H., 162 Bartholemew Road, Levin.
 2AVR—Dinnie, J. G., 12 Burrows Avenue, Karori, Wellington, 5.
 2AVS—Heath, B. O., Moores Valley Rd., Wainuiomata.
 2AVT—Tremear, K. D., 12A Thynne St., Foxton.
 2AVU—England, S. J., 3 Akatea St., Wellington.
 2AVV—Hewitt, I. R., Mangamairi, Pahiatua.
 2AVW—Carter, J., 137 Moohan Street, Wainuiomata.
 2AVX—Lepper, R. E., 26 Kimbolton Road, Feilding.
 2AVY—Owen, M. L., P.O. Box 17048, Karori.
 2AVZ—Freyberg High School Radio Club, (Trustee P. W. French), Freyberg Street, Palmerston North.
 2AWA—Farquhar, W. E., 17 Stansell Ave., Nelson.
 2AWB—Craigie, C. J., 45 Gillespies Road, Upper Hutt.
 2AWC—Crocker, T. W., 57 Maratapu Street, New Plymouth.
 2AWD—Frost, R. J., 60 Julia Street, Stratford.
 2AWE—Peters, D. E., 1A Bell Road, Linton Camp.
 2AWF—Alexander, D. G., 34 Tennyson St., Petone.
 2AWG—Roberts, J. C., 132 Brooklands Rd., New Plymouth.
 2AWH—Brasnán, D. C., 45 Lismore Street, New Plymouth.
 2AWI—Washer, J. F., 15A Beach Street, New Plymouth.
 2AWJ—
 2AWK—
 2AWL—Munro, R. G., 5 Caughley Crescent, Waiouru.
 2AWM—MacDonald, K. A., 26 Kashmir Avenue, Upper Hutt.
 2AWN—Lewis, L. D., Allen Ter., Linden.
 2AWO—Campin, J. W., 24 Clarence Cox Avenue, Napier.
 2AWP—Nelson, M. H., Main Rd., Mahina Bay, Eastbourne.
 2AWQ—Moir, D., 5 Harpham St., Taradale.
 2AWR—Hunt, O. D., 13 Gloucester St., Wanganui.
 2AWS—Sayers, P. A., 97 Happy Valley Road, Ohio Bay, Wellington.
 2AWT—Hopwood, F. B., 109 Park Rd., Palmerston North.
 2AWU—
 2AWV—
 2AWW—Winter, A. W., Grey Street, Normanby.
 2AWX—Wills, R. E., 30 Birdwood Avenue (Box 515), New Plymouth.
 2AWY—Williams, D. M., 28 Highbury Ave., Palmerston North.
 2AWZ—Carrell, J., 722 Ngaio St., Hastings.
 2AXA—Beale, M. J., 183 Great North Road, Wanganui.
 2AXB—Crawley, D. R. K., Campbell Road, Brunswick, Wanganui.
 2AXC—Ragan, J. H., 6 Kenmore St., Newlands.
 2AXD—
 2AXE—Phibbs, I. D., 8 Puriri Crescent, Masterton.
 2AXF—Widmer, J. B., Tikorangi.

ZL—

2AXG—Young, W. D. D., 20 Rexwood Street, Carterton.
 2AXH—Hanford, R. A., Marybank Rd., Wanganui.
 2AXI—Woodgyer, M. G., 710 Western Hutt Road, Manor Park, Lower Hutt.
 2AXJ—
 2AXK—Pomana, H., Pukeora Home for Disabled, Waipukurau.
 2AXL—Harvey, P. R., 74 Collier Ave., Wellington.
 2AXM—Wilkins, S. J., 88 McLeod Street, Upper Hutt.
 2AXN—Crane, R. G., 101 Anzac Parade, Wanganui.
 2AXO—Wright, D. N., 48 Kinmore St., Newlands.
 2AXP—Lipinski, V. J., Phillip St., Carterton.
 2AXQ—Rangitikei College Radio Club, (Trustee, W. J. G. Fisher), Bredins Line, Marton.
 2AXR—
 2AXS—Sneddon, J., 10 Cornwall Street, Masterton.
 2AXT—Woodruff, L. S. G., 1 Karaka Street, Palmerston Nth.
 2AXU—Allen, R., 57 Dimock Street, Titahi Bay.
 2AXV—Hulston, J. R., 7 Earlston Grove, Lower Hutt.
 2AXW—
 2AXX—Radio Club, New Plymouth Boys' High School, New Plymouth.
 2AXY—Davenport, J. A., 17 Sunny Grove, Wainuiomata.
 2AXZ—
 2AYA—
 2AYB—Fisher, W. G., 20 Hutchison Crescent, Wanganui
 2AYC—Richards, H. J., 5 Meachen Cres., Blenheim.
 2AYD—Barker, B. A., Waitahora, Dannevirke.
 2AYE—Wastney, R. J., 177 Quebec Rd., Nelson.
 2AYF—Amies, B. W., 17 Bracken Street, Petone.
 2AYG—
 2AYH—Simpson, A. R., 2 Milmo Street, Hawera.
 2AYI—Glover, D. R., Valley Rd., Gisborne.
 2AYJ—Visser, A., 72 McLeod St., Upper Hutt.
 2AYK—Kelly, R. W., 103 Waihi Road, Hawera.
 2AYL—Anderson, R. S., 22 Tilbury Street, Lower Hutt.
 2AYM—Scholefield, C. O., Spring Grove R.D., Wakefield.
 2AYN—Patchett, J. P., 48 Glen Road, Raumati.
 2AYO—Hurley, G., 8 Pritchard Street, Wellington.
 2AYP—
 2AYQ—Odell, M. S., 4 Dillon Bell Road, Gisborne.
 2AYR—Kingson, B. L., 91 Inkerman St., Renwick, Blenheim.
 2AYS—Burton, H. C., 34 Stewart St., Aramoho, Wanganui.
 2AYT—Bolton, P. E., 25 Poole Crescent, Wainuiomata.
 2AYU—Bruijine, W., 3 Forth Place, Paremata.
 2AYV—Struthers, G. J., 18 Adams Lane, Blenheim.
 2AYW—Thwaites, C. L., 4 Brian Bary St., Blenheim.
 2AYX—Pohl, K. P., 58 Norton Park Avenue, Lower Hutt.
 2AYY—Waghorn, T. J., 8 Rueben Grove, Lower Hutt.
 2AYZ—Cousins, W. G., 1 Clinton Way, Wellington 2.
 2AZA—Borrell, D., 5 Taupo Cres., Plimmerton.
 2AZB—McKay, D. K., 28 Eltham Rd., Blenheim.
 2AZC—Dunn, D. A., 401 Lascelles St., Hastings.
 2AZD—Bruce, M. G., Flat 4, Christie Crescent, Havelock North.
 2AZE—Stretch, F., 84 Wither Road, Blenheim.
 2AZF—
 2AZG—Fitton, E. L., 57 Keith Street, Wanganui
 2AZH—Watson, G. J., 51 Waverley St., Waipawa.
 2AZI—
 2AZJ—Cole, A. G., 66 Ponsonby Road, Karori, Wellington.
 2AZK—Lankshear, B. R., 222 Howick Road, Blenheim.
 2AZL—Belt, G. J., 41 Nevay Rd., Miramar, Wellington.
 2AZM—
 2AZN—Walker, D. G., 60 Stephen Street, Johnsonville.
 2AZO—Oddie, A. D., 5 Greenhill Road, Nelson.
 2AZP—Pinny, H. G., 18 Coates St., Linden, Tawa.
 2AZQ—Sutherland, H. B., 96A Princes Street, Nelson.
 2AZR—
 2AZS—
 2AZT—Thomas, G. D., 5 York Place, Porirua, Wellington.
 2AZU—Ellison, C. L., 46 Hislop Avenue, Napier.
 2AZV—Stephen, J. M., 6 Leghorne Lane, Havelock North.
 2AZW—
 2AZX—Orange, L. R., 17 Wakefield Street, Waiouru.
 2AZY—
 2AZZ—Riverside Radio Club, (Trustees Mr A. J. Little and Mr P. Weston), Epuni Boys Home, 441 Riverside Drive, Lower Hutt.

ZL—

2BAA—Sinclair, M. W., P.O. Box 9239, Courtney Place, Wellington.
 2BAB—Hammond, A. L., 2 Doris Street, Richmond.
 2BAC—Osborne, T. G., 46 Stewart Drive, Wellington 4.
 2BAD—Bennett, W. A., Hangarua, Gisborne.
 2BAE—Searing, J. J., 88 California Drive, Upper Hutt.
 2BAF—Donoghue, C. J., 9 Highfield Place, Levin.
 2BAG—Martin, P. J., Palmer Road, R.D. 29, Kaponga.
 2BAH—Mace, R. M., Main South Road, R.D. 4, Omata, New Plymouth.
 2BAI—Marett, J. H., 42 Wilford Street, Upper Hutt.
 2BAJ—Blackley, D., 3 Freeling St., Island Bay, Wellington.
 2BAK—
 2BAL—Laing, A. J., 138 Liverpool Street, Linden.
 2BAM—Durdle, B. M., 5 Oswald Crescent, Wellington 4.
 2BAN—Davison, G., Flat 6, 454 Church Street, Palmerston North.
 2BAO—Jenkins, M. D., 18 Napier Crescent, Napier.
 2BAP—McDonald, R. N., 17 Brougham Street, Wellington.
 2BAQ—Groenstein, W. I., 540 Ruahine St, Palmerston North.
 2BAR—
 2BAS—Sutcliffe, D. B. G., 1017 Aberdeen Road, Gisborne.
 2BAT—Nunn, P. D., 8 Lawrence Road, Napier.
 2BAU—Hoy, R. W., 2 Thurlleigh Grove, Wellington.
 2BAV—Colegrave, A. H., 9 Iranui Road, Gisborne.
 2BAW—Wanganui Branch NZART, (Trustees B. E. Stewart, F. R. Withers), 2 Peat Street Wanganui.
 2BAX—Stevens, E. F., 30 McKinley Crescent, Wellington.
 2BAY—Watson, C. D., Spring Grove, R.D. 1, Wakefield.
 2BAZ—Forrester, I. J., 558 Fergusson Drive, Trentham.
 2BBA—
 2BBB—Hearn, W. J., 125 Renown Rd., Raumati.
 2BBC—Beckett, E. M., 10 Sydenham St., Northland, Wellington.
 2BBD—Urwin, H. C. R., 14 Brook Street, Nelson.
 2BBE—McMillan, L. W. M., 84 Wellington Road, Wainuiomata.
 2BBF—Byrnand, J. L., 125 Bell Street, Wanganui.
 2BBG—Withers, F. R., Papaiti, Aramoho, Wanganui.
 2BBH—Wilson, G. H., Lyell Rd., Gisborne.
 2BBI—Melville, R. A., 10 Raine Street, Wellington 5.
 2BBJ—Corney, A. C., 43 Clutha Avenue, Wellington 4.
 2BBK—Duke, E. M., 11 Edward St., Richmond.
 2BBL—Langford, A. K., 562 Ruahine Street, Palmerston Nth.
 2BBM—MacGibbon, R. A., 45 Manawatu St., Palmerston North.
 2BBN—
 2BBO—Lealand, T. P., 16A Hunter St., Hawera.
 2BBP—Norgate, M. H., 14 Gordon Street, New Plymouth.
 2BBQ—Ansley, B. K., House 7, Makara Radio Settlement, Makara, Wellington.
 2BBR—Minchin, H. E., 30 Dixon Avenue, Hawera.
 2BBS—Doig, A. M., 13 Valentine Street, Lower Hutt.
 2BBT—Grove, K. E., 81 Tama St., Lower Hutt.
 2BBU—Pearmain, C. E., 47 Alton Street, Nelson.
 2BBV—Gorst, T. H., 2 Belmont Street, Havelock North.
 2BBW—Byles, T. W., 4 Somerses Cres., Palmerston North.
 2BBX—Buchanan, T. M., 9 Manchester St., Petone.
 2BBY—Bray, H. J. J., 7 Alexandra Rd., Wellington, C.4.
 2BBZ—Dickson, L. P., Piko Rd., Okoki, Urenui.
 2BCA—Scott, D. L., 10 Waimea Road, Nelson.
 2BCB—Tunncliffe, C. G., 11 Kingswood St., Palmerston North.
 2BCC—Chang, A. G. M., 3 Maple Grove, Maungaraki, Lower Hutt.
 2BCD—Dean, F. R. J., 2 Coates St., Linden.
 2BCE—Pye, J. F., 7 Bryant St., Palmerston North.
 2BCF—Henderson, J. M., 1 Beetham Street, Masterton.
 2BCG—Jackson, J., 19 Grey St., Motueka.
 2BCH—Passuello, M. J. D., 37 Coromandel St, Wellington 2.
 2BCI—Brownlie, J. A., Mangaroa Station, Tokomaru Bay.
 2BCJ—Lewis, L. T., 50 Chalmers Road, Gisborne.
 2BCK—White, M. G., Mangawhero R.D., Eltham.
 2BCL—Dagg, A. H., 77 Barker Road, Mawera, Napier.
 2BCM—Hargreaves, D. P., 28 Huntleigh Park Way, Wellington 4.
 2BCN—Moller, L. J., 36 Roys Road, Plimmerton.
 2BCO—Gooch, G. M., Mangatarata Road, Waipukurau.

ZL—

2BCP—Sim, D. S., Flemington, R.D., Waipukurau.
 2BCQ—
 2BCR—King, F. B., 65 Commercial Street, Takaka.
 2BCS—Hooker, B. C. A., 502 West Lyndon Rd., Hastings.
 2BCT—Clements, D. J., Main Rd., Greytown.
 2BCU—Te Hapara Air Scouts Radio Club (Trustee, L. T. Lewis), 30 Chalmers Road, Gisborne.
 2BCV—Mangnall, A. R., 31 Wainui Rd., Woburn, Lower Hutt.
 2BCW—Kerr, M. J. B., 50A Chelmsford St, Wellington 4
 2BCX—Luxford, J. W., No. 4 R.D., Waituna West, Feilding.
 2BCY—Wallen, E. J., Bilhams Road, Patutahi.
 2BCZ—
 2BDA—Angus, R. H. R., 89 Taradale Road, Napier.
 2BDB—Herbert, J. W., 91 Holdsworth Ave., Upper Hutt.
 2BDC—Benge, C. W., 35 Mt. View Road, Wanganui.
 2BDD—Smith, C. B., 152 Marine Parade, Napier.
 2BDE—Gisborne Boys' High School Radio Club (Trustee, W. G. Renner), Roebuck Rd., Gisborne.
 2BDF—Garratt, H., 172 Knights Road, Lower Hutt.
 2BDG—
 2BDH—Hulse, J. C., Redwoods Valley, R.D., Richmond.
 2BDI—Grenfell, N. W., 112 Fitzgerald St., Featherston.
 2BDJ—
 2BDK—Marsh, W. J., 13 Andrews Drive, Waiouru.
 2BDL—McLachlan, R. M., 95 Calcutta Street, Wellington 4.
 2BDM—Mote, B. J., Alexander St., Meeanee.
 2BDN—New Plymouth Branch NZART, (Trustee) W. T. Watkins, Marsland Hill, New Plymouth.
 2BDO—Inglewood High School Radio Club, (Trustee) F. H. Cramer, 34 James Street, Inglewood.
 2BDP—
 2BDQ—Johnson, W. J., A59 Hospital Block, Upper Hutt.
 2BDR—Lehrke, W. H., 47 Smithfield Rd., Wanganui.
 2BDS—Corbett, A. A., 24 Richmond Avenue, Palmerston North.
 2BDT—Robotham, R. W., 30 East St., Palmerston North.
 2BDU—Pickett, B. T., 9 Selby Place, Palmerston North.
 2BDV—
 2BDW—Wilde, C. J., 401 Main Road, Stoke.
 2BDX—Hanson, L. J., 8 Montgomery Ter., Palmerston North.
 2BDY—Tait, M. A., 1 Churchill Drive, Featherston.
 2BDZ—Wairarapa Branch NZART (Trustee, J. A. Bicknell), Kempton Line, Greytown.
 2BEA—Oliver, R. D., 109 Wise St., Wainuiomata.
 2BEB—
 2BEC—Studdert, W., 90 Fairlie Ter., Kelburn, Wellington.
 2BED—Dunkley, G. J. H., 17A Blue Mountains Road, Silverstream.
 2BEE—
 2BEF—Fitzgerald, D. I., 23 Jillett Street, Titahi Bay.
 2BEG—Cropp, B. A., 7 Blue Mountains Road, Silverstream.
 2BEH—
 2BEI—Hastings Branch NZART (Trustee, J. Carrell), C/D and NZART HQ, Nelson Park, Caroline Road, Hastings.
 2BEJ—Johnson, H. A., 51 Tanner Street, Havelock North.
 2BEK—Biggar, R. G., 33 Chester Street, Levin.
 2BEL—Gichard, K. G., 279 Tukapa Street, New Plymouth.
 2BEM—Mackrell, T. F., Arero, Tolaga Bay.
 2BEN—Myers, H. H., 7 Wakely Rd, Newlands, Wellington, 4.
 2BEO—O'Hagan, M. G., Catholic Presbytery, Meeanee Road, Taradale.
 2BEP—Whiteford, P. C., 54 Aurora Terrace, Wellington.
 2BEQ—Newburn, N. J., 94 The Ridgeway, Stoke, Nelson.
 2BER—Valois, D. A., 3 Motu Road, Paekakariki.
 2BES—Catt, D. V., 16 Wyndham Street, Carterton.
 2BET—Toomath, B. E., 24 Nile Street, Lower Hutt.
 2BEU—McLennan, R., Parakino School, Private Bag, Wanganui.

ZL—

2BEV—Vondruska, A. J. J. M., 46 Hobson St., Wellington.
 2BEW—Brownie, R. S., 34 Shakespeare Ave., Upper Hutt.
 2BEX—Ramsay, D. A., Foxhill, R. D. 1, Wakefield.
 2BEY—Wilkins, A. G. J., 6 Woodland Road, Johnsonville.
 2BEZ—
 2BFA—Broderick, R. M. (Mrs), 13 Orchard Street, Stoke.
 2BFB—Wilde, R. H., 179 Cook Street, Palmerston North.
 2BFC—Cattermole, B. L., 120 Tasman Street, Wellington 2.
 2BFD—
 2BFE—
 2BEF—Fitzgerald, D. I., 23 Jillett Street, Titahi Bay.
 2BFG—
 2BFH—
 2BFI—Young, D. E., 97 Rosetta Road, Raumati South.
 2BFJ—Ireland, P. J., 45 George Street, Levin.
 2BFK—Potroz, K. N., 36 Liverpool Crescent, Hastings.
 2BFL—Sullivan, E. P. A., "Little Merton", York Bay, Wellington.
 2BFM—Thomas, K. F., 24 Upjohn Street, New Plymouth.
 2BFN—McKenzie, R. D., 18 Tyndall Street, Pahiatua.
 2BFO—George, A. G., 30B Dundas Street, Wellington.
 2BFP—Kinge, G. H., 62 Oak Street, Gisborne.
 2BFQ—Palmerston North Boys' High School Radio Club—Trustee, R. L. Blair, Featherston Street, Palmerston North.
 2BFR—Wiggins, H. N., 23 Slacks Street, Palmerston North.
 2BFS—Simmonds, A. F., N.Z.B.C. House, No. 5 Private Bag, Titahi Bay.
 2BFT—Cavanagh, B. J., 22 Edwardes Street, Napier.
 2BFU—Lacey, G., 27 Bledisloe Street, Masterton.
 2BFV—Leonard, M. L., 2 Barton Avenue, Napier.
 2BFW—Peters, R. E. F., 50 Beazley Avenue, Wellington 4.
 2BFX—Pukerua Bay Venturer Scouts Radio Club (Trustee: L. E. C. Johnson), Atlantic Scout Hall, Pukerua Bay.
 2BFY—Heffernan, W. H., C/o Blue Heron Hotel, Porirua.
 2BFZ—Barnett, C. J., 37 McPharland Street, Upper Hutt.
 2BGA—
 2BGB—Harvey, D. R., 3 Cole Grove, Upper Hutt.
 2BGC—Allen, N. G., 94 Huatoki St., New Plymouth.
 2BGD—York, R. W. F., 69A George Street, Blenheim.
 2BGE—Boyle, L., 37 Lewis Ave., Wanganui.
 2BGF—Toms, R. V., 127 Long Melford Rd., Palmerston North.
 2BGG—McConnachie, M. J., C/o. N.Z. Electricity Dept., Tuai.
 2BGH—Bridge, G. H., 93 Calcutta Street, Wellington 4.
 2BGI—
 2BGJ—Ashton, G. W., 65 Roys Road, Plimmerton.
 2BGK—England, V. I. (Mrs), 29 Horokiwi Road, Newlands, Wellington 4.
 2BGL—Currey, C. F., 31 Capella Flats, Waiwhetu, Lower Hutt.
 2BGM—
 2BGN—
 2BGO—Grove, P. E., 7 Battersea Place, Palmerston North.
 2BGP—Griffith, K. C., 11 Hobart Street, Miramar, Wellington.
 2BGQ—Buckton, G. S., 93 Middle Renwick Road, Blenheim.
 2BGR—McEwen, E. J., 29 Short Street, Masterton.
 2BGS—Benson, C. C., 54 Roberts Road, Masterton.
 2BGT—Bennett, P., 19 Wainui Street, Nelson.
 2BGU—Clemens, W. E., 5 Lowry Street, Richmond.
 2BGV—Simpson, W. N., 23 High Street North, Motueka.
 2BGW—Kisby, M., 33 Woodhouse Avenue, Wellington 5.
 2BGX—The School of Signals Radio Club (Trustee: Sgt. L. R. Orange), Waiouru Military Camp.
 2BGY—Bennett, A. J., 38 Paisley Street, Palmerston North.
 2BGZ—McLean, G. M., 115 Marine Parade, Eastbourne.
 2BHA—
 2BHB—Baker, R. G. H., 8 John Street, Blenheim.
 2BHC—Griffin, R. J., 309 Nayland Road, Stoke.

ZL—

2BHD—Bateman, G. W., Tawhiti Schoolhouse, Glasgow Street, Hawera.
 2BHE—
 2BHF—Meachen, J. A., 68 Golders Road, Upper Hutt.
 2BHG—Lawson, J. R., Opuri, R.D.1, Rai Valley.
 2BHH—Burnham, E. D., 15 Tawa Street, Levin.
 2BHI—Orams, K. J., 13 Eagle Street, Wellington.
 2BHJ—Christiansen, W. F., 76 Randwick Crescent, Moera.
 2BHK—Johnson, D. H., 85 Holdsworth Avenue, Trentham.
 2BHL—Fowler, R. L., Dehra Doon Road, Riwaka.
 2BHM—Matthews, E. F., Moeawatea, via Waverley.
 2BHN—Allardye, J. P. G., St. Patrick's College, Silverstream.
 2BHO—Henderson, R. L., Waiohiki.
 2BHP—Walker, J., 4 St. Ronans Avenue, Lower Hutt.
 2BHQ—Magon, T. E., C/o HMNZS Iirangi, Waiouru.
 2BHR—Case, F. S., 12 Collingwood Street, Wellington 4.
 2BHS—Smith, W. E., 30 Pipitea Street, Wellington.
 2BHT—
 2BHU—
 2BHV—(Mrs) Holland, J. A., 5 Rose Street, Ranui Heights, Porirua.
 2BHW—Holland, A. D., 5 Rose Street, Ranui Heights, Porirua.
 2BHX—Vernon, T. J. E., 7 Dove Place, Taihape.
 2BHY—Johnson, B. L., 25 Shackleton Grove, Stokes Valley.
 2BHZ—Searle, P. M., House 1, Piripaua Hydro, Private Bag 151, Wairoa.
 2BIA—
 2BIB—Marett, G. A., 42 Wilford Street, Upper Hutt.
 2BIC—MacLeod, D., 13 Hyde Street, Wainuiomata.
 2BID—Gordon, A. F. W., 64 King Street, Taradale.
 2BIE—Porirua College Radio Club (Trustee, F. R. J. Dean), Drivers Crescent, Porirua.
 2BIF—Brewster, D. W., 16 Bateup Road, Richmond.
 2BIG—Bingham, W. J., 31 Elizabeth Street, Feilding.
 2BIH—Burrell, G. A., 20A Tawa Terrace, Tawa.
 2BII—Wincer, R. A., Ronga Valley, R.D. 1, Rai Valley.
 2BIJ—Howarth, R. J., 67 Young Street, Wanganui.
 2BIK—Pearce, W. M., 22 Hinau Street, Linden.
 2BIL—Morris, R. K., 48 Victoria Street, Carterton.
 2BIM—Weir, R. M., 5 Ashridge Road, Napier.
 2BIN—Fletcher, G. L., 9 Jackson Street, Marybank, Nelson.
 2BIO—Barnes, D. J., 16 Jackson Street, Nelson.
 2BIP—McIsaac, A. J., 6 Richmond Avenue, Nelson.
 2BIQ—Hill, A. McK., House No. 7, C/o N.Z.B.C., Titahi Bay.
 2BIR—Book, R. L., Flat 2, 8 Purser Crescent, Blenheim.
 2BIS—Porter, I. G., 21 Arene Grove, Titahi Bay.
 2BIT—Central Institute of Technology Radio Club (Trustee) H. J. Maxwell, Electronics Department, Victoria Street, Petone.
 2BIU—
 2BIV—Ladsen, V. D., 52 Percy Street, Blenheim.
 2BIW—
 2BIX—Archer, D. R., 126 Rugby Street, Palmerston North.
 2BIY—
 2BIZ—Stephenson, W. V., 460 Te Moana Road, Waikanae.
 2BJA—Salmen, A. H., 8 Mudie Street, Lower Hutt.
 2BJB—
 2BJC—Hill, I. McK. G., 29 Holdsworth Avenue, Trentham.
 2BJD—Robson, E. H., 120 Marine Parade, Napier.
 2BJE—Bright, J. R., 23 Kippenberger Drive, Linton Mil. Camp.
 2BJF—Hodgkinson, H. R., 104 Pinehaven Road, Pinehaven, Silverstream.
 2BJG—McGregor, B. A., 1 Havelock Street, Mornington.
 2BJH—Woodward, C. A., 37 Cockayne Road, Wellington.
 2BJI—
 2BJJ—Coss, R. J., 17 Margaret Street, Palmerston North.
 2BJL—French, P. W., 71 Keith Street, Palmerston North.
 2BJK—Malcolm, R. K., 114 Chaucer Road North, Napier.

ZL—

2BJM—Dewick, J. A., 98 Riverbend Road, Napier.
 2BJN—Cooper, S. D., 225 St Aubyn Street, New Plymouth.
 2BJO—Cathcart, K. S., 406 Featherston Street, Palmerston North.
 2BJP—De Grey, P. J., 145 Carlton Avenue, Springvale, Wanganui.
 2BJQ—Manning, S. C., 77 Omata Road, New Plymouth.
 2BJR—Wilkinson, K. S., 7 Melrose Crescent, Wellington 3.
 2BJS—Jamieson, D. R., 38 Dillons Point Road, Blenheim.
 2BJT—Fletcher, K. M., 493 Karaka Bay Road, Wellington 3.
 2BJU—
 2BJV—
 2BJW—Halligan, G., C/o D.S.I.R. Private Bag, Palmerston North.
 2BJX—
 2BJY—Johnston, H. W., 8 Stellin Street, Lower Hutt.
 2BJZ—
 2BKA—
 2BKB—
 2BKC—
 2BKD—Appleton, D., 107 Chaucer Road North, Napier.
 2TAA—Stanners, J. L., Rudman House, Vivian Street, Wellington 1.
 2TAB—
 2TAC—Smith, W. B., 12 Clifford Street, Hawera.
 2TAD—Mallinson, E. J., 64 Seymour Street, Blenheim.
 2TAE—Kerr, P. A., 20A Bellvue Road, Lower Hutt.
 2TAF—Henderson, R. J., Post Office Hostel, Johnsonville.
 2TAG—Bennett, A. J., 33 Ngatitooa Street, Tawa.
 2TAH—Haisman, A. J., 505 Palmerston Road, Gisborne.
 2TAI—
 2TAJ—Squires, D. R., No. 1 Newton Flats, 330 Marine Parade, Wairoa.
 2TAK—Ingham, C. G., 138 Dowse Drive, Lower Hutt.
 2TAL—Gyde, R. V., 180 Huatoki Rd., New Plymouth.
 2TAM—McHardy, R. A., 762 Gladstone Road, Gisborne.
 2TAN—Fairbairn, R., 49 Salisbury Road, Richmond.
 2TAO—Oldham, I. D., 31 Harbour View Road, Lower Hutt.
 2TAP—Baker, W. R. E., 35 Harland Street, Wellington 2.
 2TAQ—Hadfield, C. I., 42 Benmore Avenue, Palmerston North.
 2TAR—Ingham, J. D., 138 Dowse Drive, Lower Hutt.
 2TAS—Marsh, J. K., Main Rd., Oakura, New Plymouth.
 2TAT—Smith, K. R., 4 Mahia Place, Palmerston North.
 2TAU—Wilson, S. J., 81 Sidlaw Street, Wellington 3.
 2TAV—Bodell, E. W., 566 Featherston St., Palmerston Nth.
 2TAW—Gede, S. G., 139 Cockayne Road, Wellington 4.
 2TAX—Barnes, E. J., 54 Brooker Grove, Newlands, Wellington.
 2TAY—Lewer, D. H., 41 Alexandra Street, Marton.
 2TAZ—Vernall, R. B., 17 Mallam St, Karori, Wellington 5.
 2TBA—Higgott, L. G., Valley Road, Raetihi.
 2TBB—Mackie, J. W., Makara Radio, Private Bag, Karori.
 2TBC—Irvine, G., 16 Keats Crescent, Stoke.
 2TBD—Owen, N. A., 22 Victory Cres., Tawa.
 2TBE—Hood, S. W., 38 Abbot Street, Wanganui.
 2TBF—
 2TBG—Snelson, K. H., 58 Batchelor Street, Wellington 4.
 2TBH—Henderson, G. J., 19 Reese-Jones Grove, Maungaraki, Lower Hutt.
 2TBI—
 2TBJ—Joseph, D. H., 56 Pilmuir St., Lower Hutt.
 2TBK—Love, G. A., 37 Ernest Street, Porirua.
 2TBL—Lott, A. G., 47 Raukawa Street, Wellington 3.
 2TBM—Bradley, G. S., 125 Tasman Street, Wellington.
 2TBN—Shennan, B. V., 374 Broadway, Wellington 3.
 2TBO—Campbell, L. T., 14 Leighton Ave., Lower Hutt.
 2TBP—Norgrove, A. E., Flat 1, 65 Victoria Avenue, Palmerston North.
 2TBQ—
 2TBR—Law, A., 47A Carlton St., Lyall Bay, Wellington.
 2TBS—Ward, L. A., 171 Waiwhetu Road, Lower Hutt.
 2TBT—Marfell, E. M., Marfells Estate, Seaview, Seddon.
 2TBU—Stevens, J. E. R., 2 Caprera Street, Melrose, Wellington.

ZL—

2TBV—Coote, D., 18 Corlett Road, Plimmerton.
 2TBW—Treadwell, G. C., 40 Todman Street, Wellington.
 2TBX—
 2TBY—Annand, R. C., 67 Joll Rd., Havelock North.
 2TBZ—Harris, W. R. B., 20 Thomson Grove, Stokes Valley.
 2TCA—Chong, S. G., 5 Beavis Lane, Wellington, 5.
 2TCB—Cooper, A. S., Solway Crescent, Masterton.
 2TCC—Brown, G. R., 28 John Street, Stokes Valley.
 2TCD—
 2TCE—Felder, D. M., 38A Roxburgh St., Wellington 1.
 2TCF—Garnett-Frizelle, H. H., 18 Ruahine St., Wellington.
 2TCG—Cornwall, M. W. M., 32 Oxford Ter., Lower Hutt.
 2TCH—
 2TCI—Calhaem, I. M., 95 Owen Street, Wellington.
 2TCJ—
 2TCK—Ballantine, R. N., 49 Catherine Cres., Wellington 4.
 2TCL—Lacey, J. D., 233A Carrington Street, New Plymouth.
 2TCM—Downs, F. W. P., 32A Field Street, Silverstream.
 2TCN—Barnhill, J. D., 26 Garfield St., Brooklyn, Wellington.
 2TCO—Lindrop, P. R., 31 Athens Street, Wellington 3.
 2TCP—Pownall, M., 195 Cecil Road, Wellington, 1.
 2TCQ—
 2TCR—Holder, S. W., 133 Clawton Street, New Plymouth.
 2TCS—Turner C. R., 28 Rangoon Street, Wellington 4.
 2TCT—McFarlane, P. H., 4 Lambley Rd., Titahi Bay, Wellington.
 2TCU—Milne, R. J., Wallaceville Animal Research Station, Private Bag, Upper Hutt.
 2TCV—Morison, R. D., 40 Kiriwai Road, Paremata.
 2TCW—Wheatley, M. J., 92 Oxford Street, Ashhurst.
 2TCX—Hall, T. K., 3 Bedford Grove, Nelson, Lower Hutt.
 2TCY—Creed, R. J., 4 Carrol Grove, Upper Hutt.
 2TCZ—Smales, K. A., 26A Mandalay Terrace, Wellington 4.
 2TDA—Dawson, D. J., 63 Fergusson Street, Woodville.
 2TDB—Gloag, G. F., 65 Cockburn Street, Masterton.
 2TDC—Crook, D. J., 19 Clark Avenue, Napier.
 2TDD—Clarke, T. R., 329 Wicksteed Street, Wanganui.
 2TDE—Langridge, D. P., 47 Fantame Street, Porirua.
 2TDF—Dicker, J. L., Waimea West, R.D., Brightwater, Nelson.
 2TDG—Wood, B. A., Main Road, Tasman, R.D. 1., Upper Moutere.
 2TDH—Wade, R. B., 5 Greenoch Place, Palmerston North.
 2TDI—Doney, P. A., 7 York St., Gonville Junction, Wanganui.
 2TDJ—Hercus, D. A., 10 McDonald Street, Lower Hutt.
 2TDK—Bibby, G. S., 9 Fromont St., Wanganui East.
 2TDL—Knight, K. J., 71 Jenner Road, Nelson.
 2TDM—Adamson, D. P., 35 Horokiwi Road, Wellington 4.
 2TDN—Devonport, B., 283 Botanical Road, Palmerston North.
 2TDO—Hyde, P. R., 26 Randwick Cres., Moera, Lower Hutt.
 2TDP—Charles, C. F., 136 Driver Crescent, Porirua.
 2TDQ—Hingston, M. C., 253 Dowse Drive, Maungaraki, Lower Hutt.
 2TDR—Emanuel, J. C., 17 Mallan Street, Wellington 5.
 2TDS—Boyd, C. B., 115A Ruahine Street, Palmerston North.
 2TDT—Mulhare, P. J., 4 Lyndfield Lane, Wellington 4.
 2TDU—Black, E. G., 233 Nevay Road, Wellington 3.
 2TDV—Grover, D., 15 Balmain Street, Wellington 4.
 2TDW—
 2TDX—Erickson, D. C., 59 Moxham Avenue, Wellington 3.
 2TDY—Richards, J. H., 633 High St., Lower Hutt.
 2TDZ—Goodwin, R. J., 40 Hewitts Road, R.D. 4, Palmerston North.
 2TFA—Weir, R. G., 24 Ruskin Road, Newlands, Wellington.
 2TFB—
 2TFC—Carruthers, B. McK., 76 King Street, New Plymouth.
 2TFD—Peters, J. M., 167 Wellesley Road, Napier.
 2TFE—Cole, B. P., 170 Queen Street, Wairoa.
 2TFF—Symon, D. R., 8 Richmond Street, New Plymouth.
 2TFG—
 2TFH—Lett, B. J., 45 Tirohanga Road, Melling, Lower Hutt.
 2TFI—
 2TFJ—Gorton, H. J., 210A Jackson Street, Petone.

ZL—

2TFK—McEwen, C. R., 161 College Street, Palmerston North.
 2TFL—Bone, P. M. C., 1004 Joll Rd., Hastings.
 2TFM—Campion, P. L., 24 Arapiki Road, Stoke, Nelson.
 2TFN—
 2TFO—
 2TFP—Blackley, L. C., 26 Kaitawa Cres., Paraparaumu.
 2TFQ—Beaurepaire, W. K., Post Office Hostel Johnsonville.
 2TFR—Fryby, B. S., 19 Cotswold Crescent, Newlands, Wellington.
 2TFS—Burrell, K. M., 20D Liverpool Street, Wanganui.
 2TFT—Smith, M. W. J., 65 Longfellow Road, Opunake.
 2TFU—
 2TFV—
 2TFW—Mackey, P., 64 Norway Street, Wellington.
 2TFX—Underwood, C. F., 7 John St., Titahi Bay, Wellington.
 2TFY—O'Reilly, B. P., 7 Wheatley Street, Lower Hutt.
 2TFZ—Sayer, J. B., Norfolk Road, R.D. 1, Carterton.
 2TGA—Kendall, G. N., 31 College Street, Wanganui.
 2TGB—Gillespie, P. J., 610 Maddison Street, Hastings.
 2TGC—Lambert, N. H., 19 Isobel Grove, Wainuiomata.
 2TGD—Mills, D. J., 90 Warwick St., Wilton, Wellington.
 2TGE—Wallis, J. B., No. 9 Fort Ballance, Seatoun, Wellington.
 2TGF—Parker, B. W., 15 Bush St., Naenae.
 2TGG—Brown, N. L., 33 Milton Street, Upper Hutt.
 2TGH—Henderson, V. N., 26 Shackleton Grove, Stokes Valley.
 2TGI—Stenson, A. D., St Andrews Road, Havelock North.
 2TGJ—Johnson, T. S., 512 Huia Street, Hastings.
 2TGK—Campbell, G. J., 8 Hammond Place, Palmerston Nth.
 2TGL—
 2TGM—Meads, G. T., 3 Moa St., Inglewood.
 2GTN—Porter, C. B., 32 James Cook St, Havelock North.
 2TGO—
 2TGP—Collegiate School Radio Club (Trustee, J. B. Storey), Liverpool Street, Wanganui.
 2TGQ—Greenbank, R. J., 31 Somes Crescent, Newlands, Wellington, 4.
 2TGR—Barraud, J. M., 54 Atkinson Street, Gisborne.
 2TGS—Leckie, G. F., Flat 12, 20 Chaytor Street, Palmerston North.
 2TGT—
 2TGU—Layton, G. R., Flat 4, 27 Abbot Street, Wellington 4.
 2TGV—Eccles, K. R., Rosebank, Bideford, P. Bag, Masterton.
 2TGW—Clifford, K. S., 106 Wellington Road, Wainuiomata.
 2TGX—Morrison, J. F., 27 Mulgrave Street, Ashhurst.
 2TGY—
 2TGZ—Allmand, H. M., Te Horo.
 2THA—Wright, B. E., 27 Stanley Street, Wainuiomata.
 2THB—Cole, R. K., 51 Dale Road, Raumati.
 2THC—Cole, E. S., 66 Ponsonby Road, Karori.
 2THD—
 2THE—Allen, J. G. J., 5 Rutherford Street, Lower Hutt.
 2THF—Ford, P. L., 46 Michael Road, Paraparaumu Beach.
 2THG—Williams, J. M., 7 Kitchener Street, Waipukurau.
 2THH—
 2THI—Marshall, D. W., 195 Egmont Street, Patea.
 2THJ—Nicholson, I. W., c/o Himatangi Radio, Private Bag, Foxton.
 2THK—Simcox, J., Ugly Hill Road, Wanstead, Waipukurau.
 2THL—Leask, D. W., 44 Endeavour Street, New Plymouth.
 2THM—Broadbent, N. D., Vista Road, Ohau.
 2THN—Karl, P. J., C/o Holland House, Tasman Street, Wellington.
 2THO—Middlemiss, J. B., 8 Akatea Street, Berhampore, Wellington.
 2THP—Dewsnap, A. V., 25 Montgomery Ave., Wellington.
 2THQ—Newlands, R. G., 42 Old Porirua Rd., Ngaio, Wellington.
 2THR—Dewsnap, A. V., 2 Williamson Way, Wellington 5.

ZL—

2THS—Dale, J. S. A., 4 Douglas Street, Palmerston North.
 2THT—Vincent, G. C., P.O. Box 109, Manakau.
 2THU—Cropp, I. E., 7 Blue Mountains Road, Silverstream.
 2THV—Neill, W. J., 123 Helston Road, Wellington 4.
 2THW—Willis, M. W., 37 Baylands Drive, Newlands, Wellington.
 2THX—
 2THY—Greenbank, I. J., 47 Woodland Road, Johnsonville.
 2THZ—Lee, R. C., 48 Tinirau Street, Wanganui.
 2TIA—Anderson, B. E., 10A Simla Crescent, Wellington 4.
 2TIB—Annabell, R. B. A., Makakaho, Waitotara Valley.
 2TIC—
 2TID—Baker, N. E., 35 Harland Street, Wellington 2.
 2TIE—
 2TIF—Balfour, A. P., Private Bag, 574, Waipukurau.
 2TIG—Bowden, R. E., 10 Kennedy Grove, Stokes Valley.
 2TIH—Schmidt, M. D. K., 43 Collingwood St., Palmerston North.
 2TII—Inkster, D. J., 83 Madras St., Khandallah, Wellington.
 2TIJ—Boal, W. J., C/o Post Office Radio Depot, 4 R.D., Palmerston North.
 2TIK—Buchanan, I. A., 8 Hughes Avenue, Palmerston North.
 2TIL—Huggard, P. K., 54 Waiwhetu Road, Lower Hutt.
 2TIM—Harwood, P. J., 43 Ballance Road, Waiouru.
 2TIN—Barriball, E. C., 66 Bell Street, Linden.
 2TIO—Skerrett, D. E., 10 Pukaki Grove, Porirua.
 2TIP—McConnel, O. D., 32 Freyburg Street, Masterton.
 2TIQ—McPake, E. G., 7 Balowie Avenue, Wanganui.
 2TIR—Frazer, G. C., 14 Hinton Road, Taradale.
 2TIS—Winton, L. J., 8 Esk Street, Palmerston North.
 2TIT—Taylor, A. F., 35 Grove Street, Nelson.
 2TIU—Woodward, L. F., 244 Featherston Street, Palmerston North.
 2TIV—Tucker, C. N., 17 Jickell St., Palmerston North.
 2TIW—
 2TIX—Smith, T. R., C/o N.Z.B.C., Private Bag, Titahi Bay.
 2TIY—Thomas, A. J., Schoolhouse, Fairfax Street, Murchison.
 2TIZ—Gilchrist, J. V., 4A Kio Crescent, Wellington.
 2TJA—Walker, A. L., 53 Green Street, Tahurangi.
 2TJB—Windsor, J. D., 95 Ellice Street, Wellington.
 2TJC—McKay, P. G., Rowley Crescent, Grovetown, Blenheim.
 2TJD—Voss, M. E., Karere Road, Longburn.
 2TJE—Brett, L. H., 43 Old Renwick Road, Blenheim.
 2TJF—
 2TJG—McGibbon, N. S., Makara Radio, Private Bag, Karori, Wellington.
 2TJH—
 2TJI—Bould, R. M., 97 Ohariu Road, Wellington 4.
 2TJJ—Hannon, G. J., 600 Main Street, Hastings.
 2TJK—Williams, G. C., 6 Marlborough Street, Silverstream.
 2TJL—Newman, N. A., Owen River, Murchison.
 2TJM—
 2TJN—Smith, G. R., 8 Reese Jones Crescent, Maungaraki, Lower Hutt.
 2TJO—Pascoe, G. D., 21 Arapiko Street, Wellington 4.
 2TJP—Bryant, P., 89 Wallace Place, New Plymouth.
 2TJQ—
 2TJR—Lawes, G. D., 2 Hindmarsh Street, Wellington 4.
 2TJS—Sivyer, G. R., 219 Onepu Rd., Wellington 3.
 2TJT—Bull, M. B., 51 Liverpool Crescent, Napier.
 2TJU—Singleton, R. J., 9 Westleigh Way, Newlands, Wellington.
 2TJV—Pointon, A. C., 21 Balgowie Ave., Gonville, Wanganui.
 2TJW—Manning, F. A., 24 Stafford Street, Wellington.
 2TJX—Mollison, G. Q., 33 Ada Street, Palmerston North.
 2TJY—Cashmore, H. R., 18 Wilton Road, Wadestown, Wellington.
 2TJZ—Birse, A. M., 47 Mitchell St., Aramoho, Wanganui.
 2TKA—Rickards, C. M., 39 Endeavour Street, New Plymouth.
 2TKB—Stewart, K. R., Animal Entry Branch, Ministry of Agriculture and Fisheries, Silverstream.
 2TKC—Smith, M. W. R., 498 Evans Bay Parade, Wellington 3.
 2TKD—Benson, K. J., Bone Crescent, Hawera.

ZL—

2TKE—Emmett, B. A., Flat 2, 20 Donald McLean Street, Wellington 2.
 2TKF—Weller, M. J., 51 Cleland Cres., Naenae, Lower Hutt.
 2TKG—Wright, M. A., 28 Cunliffe Street, Wellington 4.
 2TKH—
 2TKI—Sanson, I. M., "Pinebank", Wangaehu, R.D. 6, Masterton.
 2TKJ—Pearce, J. N., 202 Whites Line, Lower Hutt.
 2TKK—Kampkes, B., 135 Main Road, Bay View, Napier.
 2TKL—Tiller, B. A., 41 Ararino Road, Trentham.
 2TKM—McRoberts, K., 100 Beachvill St., Nelson.
 2TKN—
 2TKO—Whitfield, B. W., 5 Fendalton Crescent, Upper Hutt.
 2TKP—Fleming, A. J., 3 Donnelley Drive Wainuiomata.
 2TKQ—Meads, A. M., 28 Cornwall Street, Eltham.
 2TKR—Ridding, G. B., 51 Rotherham Terrace, Miramar, Wellington.
 2TKS—
 2TKT—
 2TKU—Trass, C. G., 27 Churton Drive, Wellington.
 2TKV—Gillespie, P. J., 610 Maddison Street, Hastings.
 2TKW—
 2TKX—Reynolds, M. G., Mt. Herbert Road, Waipukurau.
 2TKY—Kilsby, M. R., R.D. 10, Palmerston North.
 2TKZ—
 2TLA—McDonald, D. C., 75 Horoeke Street, Stokes Valley.
 2TLB—
 2TLC—Herbert, T. E., 720 South Road, Omata.
 2TLD—
 2TLE—Campbell, W. H. R., Paerau Road, R.D. 1, Masterton.
 2TLF—Sargent, D. J., 56 Terou Street, New Plymouth.
 2TLG—McCarthy, J. F. DeC., 85 Muller Road, Blenheim.
 2TLH—Smith, W. H., 15 William Street, Petone.
 2TLI—Herbert, E. R., 49 Ihle Street, Palmerston North.
 2TLJ—Miller, P. G., 1 Williams Avenue, Hawera.
 2TLK—Ram, R., 37 Chesterton Street, Wellington 4.
 2TLL—Wallace, D. P., 8 Chisenhall Street, Karori, Wellington.
 2TLM—Beech, N. S., 9 Churchill St., Blenheim.
 2TLN—Nicolson, C. L., 236 The Parade, Island Bay, Wellington.
 2TLO—Normington, J. R., 39 Quebec Road, Nelson.
 2TLP—
 2TLQ—Baker, I., 7 Aru St., Tangimoana, Palmerston North.
 2TLR—Smith, B. W., 261A Riverside Drive, Lower Hutt.
 2TLS—
 2TLT—
 2TLU—Cook, B. W., 14 Glasgow St., Hawera.
 2TLV—Pulford, R. L., 80 Tinakori Road, Wellington.
 2TLW—Ward, A. S., Makara Radio, Private Bag, Karori.
 2TLX—Cook, V. R., 95 Niblett St., Wanganui.
 2TLY—Gunn, J. A., 23 Middlesex Street, Patea.
 2TLZ—Chong, A. L., 5 Beavis Lane, Karori, Wellington 5.
 2TMA—Caves, M. A., 19 Marama Crescent, Wellington 2.
 2TMB—Balfour, G. W., "Wharenuui", Wilder Settlement, PB574, Waipukurau.
 2TMC—
 2TMD—Olsen, J. H., 14 Rochester Street, Palmerston North.
 2TME—McCormick, M. J., R.N.Z.A.F., G.C.E.S.F., Ohakea.
 2TMF—Jackson, B. T., 84 Main Road, Bay View, Napier.
 2TMG—Williamson, D. E., 83 Main Road, Titahi Bay.
 2TMH—
 2TMI—Lill, V. E., 33 Tawa Tce., Tawa.
 2TMJ—Walker, M. J., 10 Ayton Street, Gisborne.
 2TMK—Synott, M. H., 54B Severn Street, Wellington 2.
 2TML—Willis, W. P., 23B Maple Grove, Wellington 2.
 2TMM—
 2TMN—MacFarlane, M. J., 29 College Street, Wanganui.
 2TMO—Sayliss, F. D., 602A West Heretaunga St., Hastings.

ZL—

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2TMQ—Stewart, I. L., 38 Belvedere Road, Wellington 3.

2TMR—Saunders, A. M., 104 McLeod Street, Upper Hutt.

2TMS—Oliver, B. M., 101 Oroua Street, Eastbourne.

2TMT—Thompson, I. J., 29A Monro Street, Blenheim.

2TMU—Poulsen, J. M., C/o 47 Kimbolton Road, Feilding.

2TMV—McAuliffe, P. N. G., 40 Barnard Avenue, Maraenui.

2TMW—Penney, L. J., 21A Weld Street, Blenheim.

2TMX—Smith, C. F., 77 Huxley Road, Gisborne.

2TMY—Lochore, M., 10 Laurent Place, Wellington 2.

2TMZ—Woodfield, N. C., 233 Dowse Drive, Lower Hutt.

2TNA—Lambert, M. G., 54 Donald St., Karori, Wellington, 5.

2TNB—Langford, K. H., 46 East Street, Greytown.

2TNC—Mills, M. D., 20 Girling Avenue, Blenheim.

2TND—Toomer, M. E., 161 Cockayne Road, Ngaio, Wellington, 4.

2TNE—

2TNF—

2TNG—Burrell Smith, M. L. C., Post Office Flat, Elzy St., Blenheim.

2TNH—

2TNI—

2TNJ—

2TNK—Rumsey, J., 21 Malone Road, Lower Hutt.

2TNL—Shearer, D. B., 60 Rongopai Street, Palmerston North.

2TNM—Baird, I. F., 19 Lighthouse Road, Napier.

2TNN—Dobson, H. M., 133 Lucknow Street, Wairoa.

2TNO—Harrison, S. G., 11 Devon Street, Masterton.

2TNP—McLachlan, I. M., 2 Fire Station Flats, Palmerston North.

2TNQ—Gibbs, B. R., 10 Whareroa Road, Raumati South.

2TNR—Hopkins, D. J., Moores Valley Road, Wainuiomata.

2TNT—Dickens, P. M., 77 Simla Crescent, Wellington 4.

2TNU—Kerr, R. F., 53 Coates Street, Linden.

2TNV—Searle, D. W., 37 Fortunatus Street, Wellington 2.

2TNW—Donaldson, S. J., 105A Somme Parade, Wanganui.

2TNX—Brown, K. J., 42 Marlows Street, Stoke, Nelson.

2TNY—Sansom, R. G., Whangaehu, R.D. 6, Masterton.

2TNZ—Speight, L. G., 21 France Road, Napier.

2TOA—Reddan, J. F., 5 Edinburgh Crescent, Blenheim.

2TOB—

2TOC—Atkins, P. D., 45 Sunbrae Drive, Silverstream.

2TOD—

2TOE—Hills, D. M., 22A Polson St. Castlecliff, Wanganui.

2TOF—Vincent, P. C., 7 Pharyzyn St., Feilding.

2TOG—Spearman, M. B., 5 Climie Cres., Hawera.

2TOH—Fulton, J. E. R., 6 Ernest St., Porirua.

2TOI—Wilson, P., 3 Collier Avenue, Karori, Wellington.

2TOJ—Fleming, J. C., 3 Donnelley Drive, Wainuiomata.

2TOK—Hay, D. I., 31 Victoria Avenue, Palmerston North.

2TOL—Buchanan, G. C., 8 Hughes Avenue, Palmerston North.

2TOM—Charlton, J. P., 5 Marne Street, Palmerston North.

2TON—Hill, A. N., 445 Ruahine Street, Palmerston North.

2TOO—Beswick, D. J., 8 Maarama Crescent, Wellington 2.

2TOP—Coley, N., 84 Main Road, Wainuiomata.

2TOQ—Gilligan, C. R., 155 Ruapehu Road, Ohakune.

2TOR—Woods, D. J., 30 Windsor Street, Palmerston North.

2TOS—Harrison, E. C., 105 Thackeray Street, Upper Hutt.

2TOT—Bowman, P. W., 4 Grange Park Avenue, Raumati.

2TOU—White, S. L., WBC Hostel, Purnell Street, Wanganui.

2TOV—Hadfield, L. C., 52 Percy Street, Blenheim.

2TOW—Watson, J. E., 50 Ellesmere Avenue, Miramar, Wellington.

2TOX—Norden, A. P., 40 John Street, Stokes Valley.

2TOY—Mowles, T. A., 318 Stokes Valley Rd., Stokes Valley, Wellington, 5.

2TOZ—

2TPA—Robbie, D. R., 4 Dover Street, Levin.

2TPB—Hellyar, G. I., 16 Hudson Avenue, Bulls.

2TPC—Briggs, W. V., 5 Collingwood Street, Levin.

2TPD—Randall, D. N., 37 Manuka Street, Otaki.

2TPE—Sargent, F. W., 56 Hurford Road, R.D. 4, New Plymouth.

2TPF—

2TPG—Soppit, T. R., 802 Rangiora Street, Hastings.

2TPH—McKenzie, I., 39A Milford Street, Blenheim.

2TPI—Creed, D. J., 4 Carol Grove, Trentham.

2TPJ—Jardine, B. J., 4 Wairau Place, Palmerston North.

2TPK—Stoks, F. G., 35 Harbourview Road, Lower Hutt.

2TPL—Purdie, B. E., 25 Hudson Avenue, Bulls.

2TPM—Dawson, E. B. H., 29 Holborn Crescent, Stokes Valley.

2TPN—Dormer, P. C. (Miss), 90 Ames Street, Paekakariki.

2TPO—Wallis, G. T., 150 Kamahi Street, Stokes Valley.

2TPP—Beatson, W. N., C/o NZBC, Private Bag, Titahi Bay.

2TPQ—Browning, K. F., 9 Churchill Street, Blenheim.

2TPR—McGrath, K. A., 46 Whirinaki Crescent, Heretaunga, Upper Hutt.

2TPS—Mills, D. F., 24 Stafford Street, Wellington.

2TPT—Lewis, D. R., 3 Hereford Street, Porirua East.

2TPU—

2TPV—Ware, G. A., Himiritangi Radio, Private Bag, Foxton.

2TPW—White, T. W., 417 Fergusson Drive, Upper Hutt.

2TPX—Wiggins, M. A., 23 Slacks Road, Palmerston North.

2TPY—Mundell, K. W., 339A Devon Street West, New Plymouth.

2TPZ—Challis, P. B., 8 Treasury Place, Linton Camp.

2TQA—McIlroy, L. J., 1 Queen Street, Wairoa.

2TQB—Puddy, R. D., 32 Churchill Avenue, Wairoa.

2TQC—Beale, A. L., 35B Te Oti Street, Paraparaumu Beach.

2TQD—

2TQE—

2TQF—Prout, S. A., 23 Roy Terrace, New Plymouth.

2TQG—

2TQH—Woolf, J. C., 141 Marine Parade, Wellington 3.

2TQI—Tucker, N. R. A., Napier Road, Havelock North.

2TQJ—Wills, A. J., 337 Jackson Street, Petone.

2TQK—Maxwell, C. H., 8 Martin Grove, Lower Hutt.

2TQL—Randal, P. A., 71 Herald Street, Wellington 2.

2TQM—Rowe, B. C. T., Flat 2, 37 Frankmore Avenue, Johnsonville.

2TQN—Paris, S. J., 18 York Street, Masterton.

Johnsonville.

2TQO—Newport, B. J., 41 Shakespeare Avenue, Upper Hutt.

2TQP—Quin, C. J., 43 Disraeli Street, Hawera.

2TQQ—Jackson, R. G., 12 Randwick Crescent, Moera.

2TOR—Orsborn, P. R., 131 Winchester Street, Levin.

2TQS—

2TQT—Whittam, J. S., 241 Vogel Street, Palmerston North.

2TQU—

2TQV—Barnett, A. D., 4 Parkway, Wainuiomata.

2TQW—

2TQX—Killington, B. H., 19 Montgomery Street, Feilding.

2TQY—Killington, W. A., 19 Montgomery Street, Feilding.

2TQZ—Smith, K. E., 6 Falcon Street, Porirua.

2TRA—Douglas, B. T., 17 Vincent Street, Lower Hutt.

2TRB—Gaskin, R. B. P., 36 Kitchener Street, Wanganui.

2TRC—Kowalak, M. A., 122 Gracefield Road, Lower Hutt.

2TRD—Thomson, J. D., 23 Waiho Terrace, Elsdon, Porirua.

2TRE—Thompson, M. H., 110 High Street, Picton.

2TRF—Hare, L. S., 6 Rosebank Avenue, Lower Hutt.

2TRG—Staggpole, V. M., 23 Horokiwi Road, Newlands, Wellington 4.

2TRH—Darby, P. R., 17 Doone Street, New Plymouth.

2TRI—

2TRJ—Cheesman, J. P., Toru Street, Mapua.

2TRK—Harling, D. S., 142 Quebec Road, Nelson.

2TRL—Pratt, D. H., 147 Cole Street, Masterton.

2TRM—Lamont, D. H., 42 Campbell Street, Napier.

2TRN—Allen, D. M., 11 Seddon Street, Upper Hutt.

2TRO—Hudson, D. S., 296 Stokes Valley Road, Stokes Valley.

2TRQ—McKenzie, N. A., 3 May Avenue, Napier.

2TRR—Cameron, H. K., 1 Tasman Street, Levin.

2TRS—Jamieson, P. A., 44 Solway Street, Masterton.

2TRT—Tindale, R. W., 9 Wilkes Street, Richmond.

2TRU—Wallace, A. J., Ferry Road, Spring Creek.

2TRV—Coole, D., 18 Corlett, Plimmerton.

2TRW—Richards, D. C., 60 Soames Crescent, Wellington 4.

2TRX—Coufts, C. G., 23 Michael Street, Masterton.

2TRY—Stewart, A. R., 7 Emano Street, Nelson.

2TRZ—Head, G. C., 88 Chelmsford Street, Wellington 4.

2TRP—Pyne, R. E., 20 Tawai Street, Trentham.

2TSA—Millard, A. J., 34 Volga Street, Wellington 2.

2TSB—Logan, J. D., 312 The Esplanade, Wellington 2.

2TSC—Field, A. G., 9 Courtney Road, Upper Hutt.

2TSD—Nankivell, G. R., 43 Holland Street, Wainuiomata.

2TSE—Harkett, R. J., 171 Vogel Street, Palmerston North.

2TSF—Chisholm, W. J. R., 44 Roxburg Street, Wellington 1.

2TSG—Brader, J. M., 2 St Francis Grove, Lower Hutt.

2TSH—Codd, B. A., 13 Standish Street, Inglewood.

2TSI—Allison, D. N., 66 Collins Avenue, Linden.

2TSK—Millard, G., 182 Clyde Street, Wellington 2.

- 2TSL—Owen, S. C. (Mrs), Main Road, Makara.
 2TSM—Brown-Douglas, F. A., Flat 4, 68 Oban Street,
 Wellington 1.
 2TSN—Oldenburg, B., 118 Rangituhi Crescent, Porirua.
 2TSO—Goodwin, D. R., 11 Stafford Street, Wellington 1.
 2TSP—Salt, B. R., 605 Albert Street, Hastings.
 2TSQ—Matheson, A. R., 26 East Street, Palmerston North.
 2TSR—Woodhouse, C. Wm., 57 Elmslie Road, Upper Hutt.
 2TSS—Byrne, H. W., 6 Cobden Street, Gisborne.
 2UHF—Wellington V.H.F. Group (Trustee G. A. Love), 37
 Ernest Street, Porirua. (Beacon Station located
 at Hawkins Hill).
 2VHP—Manawatu Branch N.Z.A.R.T. (Trustees H. N.
 Wiggins and S. J. Cathcart). (Beacon Station
 located Mt Stewart, Mt Biggs Road, Palmerston
 North).

- 3AA—
 3AB—Evans, L. C., 50 Wainoni Road, Christchurch, 6.
 3AC—Wright, L. J., 137 Prestons Road, Christchurch 5.
 3AD—Donehue, W. R., No. 1 R.D., Timaru.
 3AE—No. 17 (ATC) Squadron Radio Club (Trustee M. W. Duncan), No. 7 Hanger, R.N.Z.A.F., Wigram.
 3AF—Ashburton Branch N.Z.A.R.T. (Trustees: V. P. Lovett, P. E. Tarrant), 5 Albert Street, Ashburton.
 3AG—
 3AH—Courtis, H. B., 3 Bidwill Street, Timaru.
 3AI—
 3AJ—McDonald, K. R., 74 McBratneys Rd, Christchurch, 6.
 3AK—Sandford, G. G., Cooper's Creek, No. 2 R.D., Geraldine.
 3AL—Donald, R. J., 5 Kinvier Place, Christchurch, 2.
 3AM—Kirk, R. E., 43 Dover Street, Christchurch, 1.
 3AN—
 3AO—Bell, M. W., 203 Weston Road, Christchurch, 5.
 3AP—Tomlinson, H. C., 446 Hills Road, Christchurch, 5.
 3AQ—Lovett, V. P., 148 Alford Forest Road, Ashburton.
 3AR—Whyte, B. T., 17 Cambridge Street, Ashburton.
 3AS—Sams, C. G. A., 80 Straven Road, Christchurch, 1.
 3AT—Marquet, L. J., 23 Nortons Road, Christchurch, 4.
 3AU—Byrne, J. L., 40 Walton Street, Christchurch, 2.
 3AV—Wills, S. P., 26B Marshall Street, Christchurch, 2.
 3AW—Hills, H. O., 5 Davie Street, Kaipoi.
 3AX—Browne, N., 17 Newland Street, Christchurch, 2.
 3AY—Mason, G. E., Hawarden.
 3AZ—Rayner, D. A., 23 Waitohi Street, Christchurch 4.
 3BA—
 3BB—Brane, M. L., 514 Madras Street, Christchurch, 1.
 3BC—Harrison, J., "Pinaki," Motunau R.D., Scargill.
 3BD—Ludwig, M., 105 Beachville Road, Christchurch, 8.
 3BE—Christchurch Boys High School Radio Club, Straven Road, Christchurch, (Trustees: S. L. Allan and B. S. Robinson).
 3BF—Salt, S. J., 22 Otara Street, Christchurch 5.
 3BG—Himing, L. C., 23 Coopers Rd, Shirley, Christchurch, 6.
 3BH—Bowman, G. R. B., 170 Revell Street, Hokitika.
 3BI—Brice, K. L., 18 College Avenue, Christchurch, 5.
 3BJ—Hunter, L. C., 118 Colombo Street, Christchurch, 2.
 3BK—Bolton, W. F., 25 Brynley St, Hornby, Christchurch, 4.
 3BL—Holland, B. N., 75 Blankney Street, Christchurch 4.
 3BM—Cook, D., 29 Ontario Place, Ashburton.
 3BN—Sim, G. W., 47 Teesdale Street, Christchurch 5.
 3BO—Thompson, W. K., 3 Hawkehurst Road, Lyttelton.
 3BP—Mountford, T. G., 141A Otupua Road, Timaru.
 3BQ—Griffiths, C. E., 30 Hounslow Street, Christchurch, 4.
 3BR—Ramsay, W. J., 40 Twyford Street, Bishopdale, Christchurch, 5.
 3BS—Tweedie, S. B., 454 Ferry Road, Christchurch.
 3BT—Ensor, H. W., Ohinetahi, Governor's Bay, 2 R.M.D., Christchurch.
 3BU—Docherty, W., Mills Street, Runanga.
 3BV—Schaeff, L. M., 10 Bridge Street, Greymouth.
 3BW—Burt, G. L., 114 Marsden Road, Greymouth.
 3BX—Jones, T. R., Maungati, Timaru.
 3BY—Beech, S. C., 150 Harewood Road, Christchurch, 5.
 3BZ—Jackson, W. H., Deal Street, Kaikoura.
 3CA—Hughes, C. A., Main Road, Domett.
 3CB—Urwinn, B. A., 23 Crofton Road, Christchurch 5.
 3CC—Elliott, J. B., 25 Frankleigh Street, Spreydon, Christchurch, 2.
 3CD—Smillie, J. W., Lake Tekapo.
 3CE—Hewson, J. N., 20 Darroch Street, Christchurch, 5.
 3CF—Simpson, A. E. H., 136 Mersey St., Christchurch, 1.
 3CG—
 3CH—McKnight, S. G. J., 24 Celia Street, Christchurch 8.
 3CI—Isherwood, B., 134 Park Street, Hokitika.
 3CJ—Bell, R. G., 50B Murray Place, Christchurch, 1.
 3CK—Riddell, J. C. S., 262 Grahams Road, Christchurch 5.
 3CL—McKay, A. D. G., Duvauchelle.
 3CM—Clark, J. M., 185 Waimairi Road, Christchurch, 4.
 3CN—Gorman, B. D., 188 North Street, Timaru.
 3CO—Seton-Kellaway, G., Allan Street, Waikari.
 3CP—Parton, C. W., 78 Diamond Avenue, Spreydon, Christchurch, 2.

- 3CQ—
 3CR—Hervey, C. R., 27 The Terrace, Timaru.
 3CS—Downer, G. H., Larcombs Rd, No. 5 R.D., Christchurch.
 3CT—Berryman, C. T., 32 Wembley St., Christchurch, 2.
 3CU—McGowan, J. S., 75 Eastern Terrace, Christchurch, 2.
 3CV—Gilligan, M. S. J., 368 Barrington St., Christchurch, 2.
 3CW—Wilkins, T. D., 36 Gayhurst Road, Dallington, Christchurch, 6.
 3CX—Stewart, J. D., 4 Mona Square, Ashburton.
 3CY—Hughes, W., 418 Memorial Avenue, Christchurch, 5.
 3CZ—Rose, F. L., 23 Sails St., Papanui, Christchurch, 5.
 3DA—Fletcher, G. K., 16 Kahu Street, Burnham, Christchurch.
 3DB—Reynolds, W. A., 241 Hampden Street, Hokitika.
 3DC—Scarr, G. E., 12 Brent Place, Christchurch, 5.
 3DD—Lemin, A., 133 Mays Road, Christchurch, 5.
 3DE—
 3DF—Yoeman, J. C., 110 Bristol Street, Christchurch, 1.
 3DG—Hood, N. D., 47A Aorangi Road, Christchurch, 5.
 3DH—McBride, A. W. I., 19 Pukatea Street, Timaru.
 3DI—
 3DJ—Andrews, A. S., Flat 3, 63 Beresford St, Christchurch 7.
 3DK—Holmes, C. E., 24 Picton Avenue, Christchurch, 1.
 3DL—Barker, L. G., 27 Hillview Crescent, Timaru.
 3DM—Calvert, R. L., 253A Waimairi Road, Christchurch 4.
 3DN—Westland Branch NZART (Trustee, D. Campbell), 61 Hall Street, Cobden.
 3DO—Sharp, V. E. E., 10 Sewell St., Linwood, Christchurch, 6.
 3DP—Sweeney, A. P. H., 10 Burnside Cres., Christchurch, 5.
 3DQ—Goldsbrough, R. F., 149 Harewood Road, Papanui, Christchurch, 5.
 3DR—Bargh, K. A., Flat 4, 92 College Street, Christchurch 1.
 3DS—Farquhar, A. J., 85 Owles Terrace, New Brighton, Christchurch, 7.
 3DT—Rough, J. L., 21 Barclay Place, Christchurch, 6.
 3DU—Wilson, V. J., 33 Rosebery Street, Christchurch, 2.
 3DV—Jefferis, E. W., 23 Rosedale Place, Christchurch 4.
 3DW—Edward, L. N. M., 45D Glenharrow Avenue, Christchurch, 4.
 3DX—McGee, W. H., 11 Glenavon Place, Christchurch 4.
 3DY—
 3DZ—Johnson, E. A., 66 Greendale Street, Christchurch 5.
 3FA—Armstrong, G. T., 28 Melcombe Street, Tinwald.
 3FB—Breen, P. W., Flat 3, 84 Grey Road, Timaru.
 3FC—Guthrie, M. W., 74 Merivale Lane, Christchurch, 1.
 3FD—Currie, R. L., 213 Colombo Street, Christchurch, 2.
 3FE—Stevenson, A. D., 47 Golf Links Road, Burwood, Christchurch, 6.
 3FF—Kelly, I. J. H., 47 Kilmarnock Street, Riccarton, Christchurch, 5.
 3FG—Wickham, L. M., 54 Barrington Street, Christchurch, 2.
 3FH—Mail, L. C., 46 Wilson Street, Geraldine.
 3FI—Smith, E. S., 112 Russell Street, Westport.
 3FJ—Brown, D. A., 141 Roydvale Avenue, Christchurch 4.
 3FK—Hepburn, L. D., P.O. Box 1410, Christchurch, 2.
 3FL—Ward, S. T., 14 De Havilland Street, Christchurch 4.
 3FM—Campbell, R. J., 6 Candys Road, Christchurch, 3.
 3FN—Wilson, R. J., 8 Catherine Street, Ashburton.
 3FO—Blackmore, J. H., 364 Riverlaw Terrace, St. Martins, Christchurch, 2.
 3FP—Kyle, E. A. J., 12A Mountford Street, Christchurch, 2.
 3FQ—Hamlin, J. H., 65 Ngaio Street, Christchurch, 2.
 3FR—Cloudeley, B. E., 14 Boulton Avenue, Spreydon, Christchurch, 2.
 3FS—Seed, D. P. (Mrs.), 18 Arthur Street, Christchurch, 4.
 3FT—Wood, R. G. S., 85 Marine Parade, New Brighton, Christchurch, 7.
 3FU—McPhail, T. K., 131A Clyde Road, Christchurch, 4.
 3FV—McCracken, W. D., 14 Northcote Road, Papanui, Christchurch, 5.
 3FW—
 3FX—Blake, R. G. F., 20 Bounty Street, Christchurch, 5.
 3FY—Gardner, R., 14 Shaffbury Street, Christchurch, 5.
 3FZ—Gledhill, A. F., 134 Halswell Road, Christchurch, 2.
 3GA—Gale, W. T., 113 Petrie Street, Shirley, Christchurch 1.
 3GB—Cronin, D. W., 86 St. Martins Road, St. Martins, Christchurch, 2.
 3GC—Baker, D. M., 19 Evans Street, Timaru.

- 3GD—Kingan, S. G., Rakaia.
 3GE—Welford, A. R., 12 Devon Street, Timaru.
 3GF—Boal, W. A., 310 Wainoni Road, Christchurch 7.
 3GG—Scott, J. R., Old West Coast Road, R.D. 1, Christchurch.
 3GH—Mitchell, N. J., 15 Blossomdale Place, Christchurch, 5.
 3GI—Halliburton, G. J., 6 Barlow Street, Fendalton, Christchurch, 4.
 3GJ—McCaul, M. G., 37 Searells Road, Papanui, Christchurch, 5.
 3GK—Perkin, S. R., 4 Waitaki Street, Bexley, New Brighton, Christchurch, 7.
 3GL—Phillips, R. J., 15 Wyn St., Hoon Hay, Christchurch, 2.
 3GM—Andrews, R. A., 9 Bickerton St., Christchurch, 6.
 3GN—Dacombe, A. N., 33A Huntsbury Ave., Christchurch, 2.
 3GO—Grice, G. G., 11 Bradshaw Terrace, Christchurch, 1.
 3GP—Eddy, A. W., Lake Road, Irwell, via Christchurch.
 3GQ—Watson, P. W., Hamptons Road, R.D. 4, Christchurch.
 3GR—Calvin, L. J., 3 Eldon Lane, Greymouth.
 3GS—Wright, G. M., 25 Dunedin Street, Christchurch, 5.
 3GT—
 3GU—Keys, J. R., 60 Huxley St., Sydenham, Christchurch, 2.
 3GV—Edwards, W. G., 50 Domain Terrace, Sydenham, Christchurch, 2.
 3GW—Hooper, W. G., 24 Woodbury Street, Christchurch 4.
 3GX—
 3GY—Cook, S. A., 100 Waimairi Road, Christchurch 4.
 3GZ—Smith, H. E., 12 Tasman St, Carters Beach, Westport.
 3HA—Arnold, H. F., 165 Knowles Street, Christchurch, 5.
 3HB—Signal, C. B., 4 Ranfurly Street, Timaru.
 3HC—Brittenden, C. E. R., 329 Wainoni Rd, Christchurch, 7.
 3HD—Chambers, D. H., 7 Euston Street, Riccarton, Christchurch, 4.
 3HE—Harris, J. G., "Ranui" House Surgeons Quarters, Cambridge Terrace, Christchurch 1.
 3HF—Robb, C. M., 16 Mt. Pleasant Road, Christchurch, 8.
 3HG—Wilde, A. R., (Miss), 18 Beveridge Street, Christchurch 1.
 3HH—Wylie, R. L., 21 Vickery Street, Kaiapoi.
 3HI—Tucker, S. A., 75 Mahars Road, Christchurch, 5.
 3HJ—Hyndman, A. W., 196 Dyers Pass Road, Christchurch, 2.
 3HK—
 3HL—
 3HM—Evans, C. E., 12 Beach Road, Kaikoura.
 3HN—Holtum, J. W., 461 Johns Road, Harewood, Christchurch, 5.
 3HO—
 3HP—Hildebrand, D. E., 26 Ballance Street, Runanga.
 3HQ—Summers, Jnr., J. H., 15 Clonbern Place, Christchurch, 4.
 3HR—Leitch, A., 658 Pages Road, Christchurch 7.
 3HS—Kempthorne, J. H., 46 Major Hornbrook Road, St. Andrews Hill, Christchurch, 8.
 3HT—Grey, R. B., 170A Waimairi Road, Christchurch, 4.
 3HU—Gibson, E. N., 4 MacDonald Street, Timaru.
 3HV—Johnson, J. F. L., 247 Geraldine St., Christchurch, 1.
 3HW—Wallace, C. W., 14 Brookby Crescent, Christchurch 4.
 3HX—Marshall, D. A., 32 Bangor Street, Christchurch 1.
 3HY—Fleming, J. G., 7 Kibblewhite Street, South Brighton, Christchurch, 7.
 3HZ—Southgate, W. A., 7 Paeroa Street, Christchurch, 4.
 3IA—Langrope, S. J., 54 Rue Jollie, Akaroa.
 3IB—Walker, J. R. L., 19 Athol Terrace, Christchurch, 4.
 3IC—McCulloch, I. A. G., 58 Slater Street, Richmond, Christchurch, 1.
 3ID—Pettigrew, W. L., 148 Peel Street, Westport.
 3IE—Hopkinson, L. G., 107 Evans Street, Timaru.
 3IF—Higgins, H. E., 6 Elm Grove, Christchurch, 1.
 3IG—Lewis, G. H., 173 Palmers Road, Christchurch 7.
 3IH—Tarlton, B. M., 168 Connell Avenue, Christchurch, 5.
 3II—Hampton, D. K., C/o Sergeants' Mess, R.N.Z.A.F., Wigram.
 3IJ—
 3IK—Murray, J. C., 3 Kitchener Place, Opawa, Christchurch, 2.
 3IL—Moffatt, C. L., 29 Hampton Road, Christchurch, 5.
 3IM—Summerfield, H. J. D., 59 Cox Street, Geraldine.
 3IN—Cox, R., 16 College Avenue, Christchurch 5.
 3IO—Crossman, G. D., Milford, Temuka.
 3IP—Johnston, A. P. R., 211 Greers Road, Christchurch, 5.
 3IQ—Drummond, W. P., 11 Reid Crescent, Ashburton.
 3IR—Benson, A. F., 68 Wharenui Road, Riccarton, Christchurch, 4.
 3IS—Soanes, G. A., 245 Westminster Street, Christchurch, 1.

- 3IT—MacDonald, J. D., 42 Buchanan Street, Timaru.
 3IU—Robinson, M. G., 8 Highest Road, Christchurch, 5.
 3IV—Rae, A. O., 5 Waldan Place, Christchurch, 5.
 3IW—Madden, G. R. H., 263 Hoon Hay Road, Christchurch, 2.
 3IX—Williams, D. C., 18 Roche Avenue, Christchurch, 4.
 3IY—Vickery, K., Raven Street, Kaiapoi.
 3IZ—Duncan, A., 17 Cobham St., Spreydon, Christchurch 2.
 3JA—Avery, J. L., 188 Union Street, Christchurch 6.
 3JB—Burtenshaw, J. W., 32 Balguerrie Street, Akaroa.
 3JC—Thornton, A. B., 96 McKenzie Ave., Christchurch, 2.
 3JD—Lyes, A. E., 12 Voss Street, Christchurch 1.
 3JE—Duffield, K., 2 Averill Street, Christchurch 1.
 3JF—Henderson, H. P., 35 Hillview Crescent, Timaru.
 3JG—Holland, F. J., 33 Evans Street, Timaru.
 3JH—Kingston, E. W. A. H., 18 Smith Street, Woolston, Christchurch, 6.
 3JI—Foulds, L. F., 131 Cuthberts Road, Christchurch, 6.
 3JJ—
 3JK—Williams, H. E., 51 Westholme St, Christchurch 5.
 3JL—McFarlane, A. R., 48 Chalmers Avenue, Ashburton.
 3JM—White, D. V. B. P., 118 St. Martins Road, Christchurch, 2.
 3JN—Mummery, B. H., 8 McIntyre Street, Christchurch 1.
 3JO—Johnstone, M. O., 107 Beverley Road, Timaru.
 3JP—Langley, E. W., Rural Delivery, Domett.
 3JQ—Butcher, C. C. E., 480 Armagh St., Christchurch, 1.
 3JR—
 3JS—Pruden, H. C. L., 131 Tancred Street, Christchurch, 6.
 3JT—
 3JU—Sorensen, A. G., 62 Shortland Street, Christchurch, 6.
 3JV—MacGeorge, B. A., 9 Opie Street, Waimate.
 3JW—Anderson, R. A., 9 Greenwood St., Mairerehau, Christchurch, 1.
 3JX—Rowlands, T. E., "Ruthin", R.D., Kaiapoi.
 3JY—Stalker, J. P., Greenpark, No. 4 R.M.D., Christchurch.
 3JZ—Burke, W. C., 31 William Street, Timaru.
 3KA—Macer, J., 31 Colwyn Street, Christchurch, 5.
 3KB—Humphrey, E. H., 173 Geraldine Street, Christchurch 1.
 3KC—Cuttriss, S. A., 33 Brabourne Street, Christchurch.
 3KD—Diedrichs, G. H., 24 Ashbourne St., Christchurch, 5.
 3KE—McGrath, R. E., 42 Rhodes Street, Christchurch, 1.
 3KF—Pettitt, E. R., 6A Usk Street, Timaru.
 3KG—Willmott, W. R., C/o Willmotts, Drapers, The Arcade, Timaru.
 3KH—Howell, R. H. J., 59 Brockworth Place, Christchurch 1.
 3KI—Pratt, D. G. C., 16 Northcote Road, Waimairi, Christchurch, 5.
 3KJ—Major, J. E., 82 Chalmers Avenue, Ashburton.
 3KK—
 3KL—Howell, B. C., 6 Deepdale Street, Christchurch, 5.
 3KM—Woodfield, M. K., 18 Truman Road, Christchurch 5.
 3KN—Wilson, G. J. A., 212 Matsons Road, Papanui, Christchurch, 5.
 3KO—
 3KP—Parr, W. E., 555 Memorial Avenue, Christchurch, 5.
 3KQ—Lewitt, R. M., 3 Pound Street, Amberley.
 3KR—Cox, R. C., 109A Garlands Road, Christchurch 2.
 3KS—Downer, M. H., 12 Aylmer Street, Christchurch 2.
 3KT—Olsson, E. E., 14 Bentley Street, Christchurch, 4.
 3KU—Waters, K. A., 2 Pitt Street, Runanga.
 3KV—Brown, H. H., 22 Birkenhead St., Christchurch, 4.
 3KW—Faass, S. R. F., 4 Staines Street, Christchurch, 5.
 3KX—Harrington, R. J., Mount Harris Rd., 9 R.D., Waimate.
 3KY—Talbot, A. D., Opuha, Pleasant Point, Timaru.
 3KZ—Thomas, N. W., 39 Bishop Street, Christchurch, 1.
 3LA—Mitchell, C. J., 57 Rintoul Street, Westport.
 3LB—Hamilton, W. R., 17 Braithwaite St., Christchurch, 4.
 3LC—Corner, P. E., 58 Dunster Street, Christchurch 5.
 3LD—Mattingley, L. H., 27A Brenda Street, Timaru.
 3LE—
 3LF—Robinson, J. D., Upper Waitohi, Temuka R.D.
 3LG—Jackson, C. J., 74 Cambridge Street, Ashburton.
 3LH—
 3LI—Smith, C. E. W. H., 17A Gothic Place, Christchurch 4.
 3LJ—Wigram Radio Hobbies Club, (Trustee D. K. Hampton), RNZAF Station, Wigram, Christchurch 4.
 3LK—
 3LL—Lyttle, L. G., 423 Wai-iti Road, Gleniti, Timaru.
 3LM—Burrell, N. W., 63 Kotare Street, Christchurch 4.

ZL—

3LN—Laurie, R. G., 130 Mooray Avenue, Christchurch, 5.
 3LO—Cairns, A., 4A Walker Street, Christchurch 1.
 3LP—Leitch, R. C., 4 Joyce Crescent, Greymouth.
 3LQ—Paltridge, K. K., 131 Warrington St., Christchurch, 1.
 3LR—London, P. R., 1 Galway Crescent, R.N.Z.A.F., Wigram, Christchurch, 4.
 3LS—Miller, G. C., 47 Cox Street, Christchurch 1.
 3LT—Stanbury, A. C., 43 Dunedin Street, Northcote, Christchurch, 5.
 3LU—Craft, J. R., 9 Bucknell Road, Christchurch 4.
 3LV—
 3LW—Wardell, W. M., 192 Salisbury St., Christchurch, 1.
 3LX—Kirkpatrick, I. J., 99 Bickerton Street, Christchurch, 6.
 3LY—Eddington, J. A., 23 Ferner Street, Christchurch, 6.
 3LZ—Steel, J., 28 Hoani Street, Papanui, Christchurch, 5.
 3MA—Kingswell, G. N., Lakeside R.D. 3, Christchurch.
 3MB—Callander, H. A., 376 Estuary Road, South Brighton, Christchurch, 7.
 3MC—McKenzie, D. S., 99 Creek Road, Ashburton.
 3MD—McLaren, P., 88 Spencer Street, Addington, Christchurch, 2.
 3ME—Bramley, C. J., 198 Greers Road, Avonhead, Christchurch, 5.
 3MF—Oates, D. J., Carters Beach, c/o P.O. Box 90, Westport.
 3MG—Urwil, R. A., 30 Ryeland Avenue, Christchurch, 4.
 3MH—Murphy, G. C., 16 Keller Street, Christchurch, 6.
 3MI—Sullivan, R. E., 103A Jeffreys Road, Christchurch, 5.
 3MJ—Lewis, C. T., 30 Te Rama Place, Christchurch, 6.
 3MK—Phillips, A. S., 148 Brookside Terrace, Bryndwr, Christchurch, 5.
 3ML—McNicol, A. D., 26 Gainsford Street, Christchurch 4.
 3MM—Hills, R. I., 25 Rapaki Road, Christchurch, 2.
 3MN—McMullan, J. T., 53 Marama Cres., St. Andrews Hill, Christchurch, 8.
 3MO—Murphy, P. C., NZED Sub Station, Waipara.
 3MP—Gardwell, A. M., 18 Edward Avenue, St. Albans, Christchurch.
 3MQ—Inge, S. R., 10 Flesher Ave., Richmond, Christchurch 1.
 3MR—Warner, J. A., 11 Goulds Road, Timaru.
 3MS—Brash, J. P., 14 Rydal Street, Christchurch, 2.
 3MT—Pellett, M. A., 95 Nayland Street, Sumner, Christchurch, 8.
 3MU—Henshall, Mrs U. H., 281 Innes Road, Christchurch, 5.
 3MV—Morrin, E. C., 45 Wychbury Street, Spreydon, Christchurch, 2.
 3MW—McDonald, B. N., 19 Walton Crescent, Christchurch 5.
 3MX—Cacon, A. V., 198 Otipua Road, Timaru.
 3MY—Searle, R. W., 9 Beachville Road, Christchurch, 8.
 3MZ—Arnold, D. H., 11 Voss Street, Shirley, Christchurch, 1.
 3NA—Robinson, D. G., Kowhitirangi, R.D., Hokitika.
 3NB—Swan, A., 29 Manor Place, Bryndwr, Christchurch, 5.
 3NC—Ingram, R. C., 18 Whiteleigh Avenue, Christchurch 2.
 3ND—Liddell, C. G., 356 Avonside Drive, Christchurch, 6.
 3NE—Gyde, R. M., 144A Kerrs Road, Christchurch, 6.
 3NF—Garton, W. C., 81A Eastern Terrace, Christchurch 2.
 3NG—Murray, G. A., 72 Idris Road, Christchurch 5.
 3NH—Rogers, P. J., Cnr Cashmere and Happy Home Roads, Christchurch, 3.
 3NI—Walker, D. N., 34 Usk Street, Timaru.
 3NJ—Vincent, R. L., 18 Rugby Street, Timaru.
 3NK—Robinson, M. C., 40 Lyttelton Street, Spreydon, Christchurch, 2.
 3NL—Tait, A. McM., 8 Ashbourne Street, Christchurch, 5.
 3NM—Young, R. S., 14 Suva Street, Christchurch, 4.
 3NN—Walshe, J. R., 23 Torea Street, Granity.
 3NO—Deam, G. T., 43 Mill Road, Waimate.
 3NP—
 3NQ—Mayes, C. W., 6 Braemar Place, Christchurch, 6.
 3NR—Horan, D. E., Waitangi, Chatham Islands.
 3NS—Ostitis, T., 128 Brookside Terrace, Christchurch, 5.
 3NT—Blackwell, G. C., 3 Dobson Street, Christchurch, 2.
 3NU—Stenson, H. R., 20 Hewlings Street, Christchurch, 1.
 3NV—O'Connor, E. P., 6 Stephens Street, Rangiora.
 3NW—Coleman, E. R., C/o D. J. Shier, Osborne Street, Amberley.
 3NX—Smith, W. C., 71 Glenroy Street, Woolston, Christchurch, 6.
 3NY—Grose, D. T., 5 Ruru Road, Christchurch, 6.
 3NZ—Fletcher, J., 187 Lincoln Road, Christchurch, 2.
 3OA—
 3OB—Jefferies, J. C., 108 Chalmers Avenue, Ashburton.
 3OC—Horne, R. C., 179 Blackett Street, Rangiora.

ZL—

3OD—Adie, A. Waitawa, Pleasant Point.
 3OE—Richards, D. L., 38 Frankleigh Street, Christchurch, 2.
 3OF—Smith, T. C., Harihari.
 3OG—Harris, J. R., 134 Shortland Street, Christchurch, 6.
 3OH—Knoef, F. J. C., 54 Harbour Road, Christchurch 5.
 3OI—Chapman, F. H., 122 Pine Avenue, Christchurch, 7.
 3OJ—
 3OK—Thomson, C. W. H., Lagmore Road, Tinwald, Ashburton.
 3OL—Moyle, W. F., 120A Somerfield Street, Christchurch, 2.
 3OM—Ferrand, C., 14 Leverett Place, Christchurch, 7.
 3ON—Nicholls, J. B., 28 Weka Street, Christchurch, 4.
 3OO—
 3OP—Prebble, N. W., 134 Waimari Road, Christchurch, 4.
 3OQ—Sorensen, E. A., 37 Hendon Street, St. Albans, Christchurch, 1.
 3OR—Sewell, J. M., 120 Stanmore Road, Linwood, Christchurch, 1.
 3OS—
 3OT—
 3OU—Colley, M. J., 111 Shakespeare Street, Greymouth.
 3OV—Scrivener, E. H., 113 Blenheim Rd., Christchurch, 4.
 3OW—
 3OX—Moore, J., Main Road, Harihari, South Westland.
 3OY—Coull, G., 45 Seven Oaks Drive, Christchurch, 5.
 3OZ—Burberry, R. L., 25 Percival Street, Beckenham, Christchurch 2.
 3PA—Rawstorn, G. J., 23 Coniston Avenue, Christchurch 4.
 3PB—Lobb, G. W., 64 Peel Street, Westport.
 3PC—Abernethy, J. L., 110 King Street, Rangiora.
 3PD—Pluck, R. L., Forbes Road, Tai Tapu.
 3PE—Carruthers, J. E., 80 Gilberthorpes Road, Hornby, Christchurch, 4.
 3PF—Asher, A. S., 168 Maidstone Road, Christchurch 4.
 3PG—
 3PH—Stahl, D. M., 46 Orchard Road, Christchurch 5.
 3PI—Bartrum, B. R., 31B Bowenvale Avenue, Cashmere, Christchurch, 2.
 3PJ—Grewar, M. A., 244 Hampden Street, Hokitika.
 3PK—Robertson, J., 3 Merle Place, Christchurch, 2.
 3PL—Lobb, R. E. (Mrs), 64 Peel Street, Westport.
 3PM—McGee, P. D., 28 Conway Street, Christchurch, 2.
 3PN—Boorer, G. F., 48A Newton Street, Timaru.
 3PO—Turner, D. K., Coal Creek, Greymouth.
 3PP—
 3PQ—Schollar, K., 473 Manchester Street, Christchurch, 1.
 3PR—Taylor, R. J., 456 Innes Road, Mairehau, Christchurch, 5.
 3PS—Davidson, F. W., 25 Sledmere Street, Bryndwr, Christchurch, 5.
 3PT—Smith, F. J. A., 2 Shaftesbury Avenue, Upper Riccarton, Christchurch, 4.
 3PU—Higgs, R. B., 51 Roker Street, Christchurch, 2.
 3PV—Walker, W., Springton.
 3PW—Bevin, J. F., 91 Queen Street, Westport.
 3PX—Chapman, G. A., 35 Harrison Street, Christchurch 1.
 3PY—Adams, E. D., 487 Greers Road, Christchurch, 5.
 3PZ—Jackson, W. B., 42 Churchill Street, Kaikoura.
 3QA—McGlashan, A. E., 237 Brighton Road, Christchurch 6.
 3QB—McGlashan, D. C., 104 Papanui Road, Christchurch, 1.
 3QC—
 3QD—Arcus, A. C., 92 Milton Street, Christchurch, 2.
 3QE—Browne, E. M. J., 9 Sarsfield Street, Southbridge.
 3QF—Cotton, M., 10 Hugh Street, Kaiapoi.
 3QG—Ross, G. L., 255 Cannon Hill Cres., Christchurch, 8.
 3QH—
 3QI—Wornall, C. J., 414 Breezes Road, Christchurch, 7.
 3QJ—Havord, P. R., 16 Worsley Road, Christchurch, 2.
 3QK—Smith, W. M. B., 1 Bray Street, Woolston, Christchurch, 6.
 3QL—Carrell, T. D., 96 Teesdale Street, Christchurch 5.
 3QM—
 3QN—Barber, F. E., 24 Wimborne Crescent, Christchurch, 7.
 3QO—
 3QP—Spence, R. D., 15A Kidson Terrace, Christchurch, 2.
 3QQ—Seed, T. J., 18 Arthur Street, Christchurch, 4. (Portable).
 3QR—Gillman, G. H., Bradleys Road, Ohoka, Kaiapoi R.D.
 3QS—Sword, J. A. D. S., 395 Halswell Street, Christchurch 3.
 3QT—Delis, J. B. G., 455A Johns Road, Harewood, Christchurch, 5.

3QU—Borrell, R. P., 93 Chapter Street, Christchurch 5.
 3QV—Smith, R. H., 75 Tilford Street, Christchurch 6.
 3QW—Hawke, W. C., 129 Kerrs Rd, Linwood, Christchurch 6.
 3QX—Mayo, G. J. L., 45 Stanbury Avenue, Christchurch, 2.
 3QY—Belcher, E. W., 1 Hall Street, Cobden, Greymouth.
 3QZ—Daniels, F. J. H., Ngakawau, via Westport.
 3RA—Riach, C. D., 25 Buffon St., Waltham, Christchurch, 2.
 3RB—Davis, A. W., Aylesbury, No. 1 R.D., Christchurch.
 3RC—Le Nedelec, G. L., Flat 2, 88 Rossall St, Christchurch 1.
 3RD—Davey, D. R., 44 Teesdale Street, Burnside, Christchurch, 5.
 3RE—Gould, A. R., 462 Pages Road, Aranui, Christchurch, 7.
 3RF—Dickey, C. N., 20 Todd Avenue, Christchurch, 5.
 3RG—
 3RH—Howell, P. A. G., 36 Rollesby Street, Christchurch, 2.
 3RI—Hughes, J. O., 82 Hall Street, Cobden, Greymouth.
 3RJ—Hutton, B. G., 5 Rosamund Place, Christchurch, 3.
 3RK—McKenzie, T. J., 73 Cygnet Street, Christchurch, 7.
 3RL—Tunncliffe, D. N., 17 Panorama Road, Christchurch, 8.
 3RM—Fisher, K. G., 59 Marsden Road, Greymouth.
 3RN—Yeates, D. R., 69 St. Andrews Hill Road, Christchurch.
 3RO—Wyllie, C. R., 69 Arthur Street, Timaru.
 3RP—West, L. E., 21 Greenwood Street, Christchurch, 1.
 3RQ—Eddy, W. J. S., 46 Nayland Street, Sumner, Christchurch, 8.
 3RR—North Canterbury Amateur Radio Club, Trustee, G. H. Gillman, Drill Hall, Victoria Street, Rangiora.
 3RS—Campbell, D., 61 Hall Street, Cobden.
 3RT—
 3RU—Bennett, R. G. T., 60 Kirkwood Ave., Christchurch, 4.
 3RV—Rigg, I. K., 50 St. John Street, Christchurch, 6.
 3RW—MacKay, D. J., 22 Waipara Street, Christchurch, 2.
 3RX—South Westland Branch N.Z.A.R.T. Inc. (Trustee, G. R. B. Bowman), Police Station, Hokitika.
 3RY—Clark, E. J., 5 Albert Place, Christchurch 2.
 3RZ—King, S. P., 386 Gloucester Street, Christchurch 1.
 3SA—Gibbs, R. A., 11 Pandora Street, Christchurch, 7.
 3SB—Riordan, A. A. C., 95 Crofton Road, Harewood, Christchurch, 5.
 3SC—Shearman, G. D., 68 Proctor Street, Christchurch 5.
 3SD—Powell, M. B., 67 Harris Crescent, Christchurch, 5.
 3SE—Oxley, J. S., 11 Hanrahan Place, Riccarton, Christchurch, 4.
 3SF—Maloney, J. N., 31 Middlepark Road, Christchurch, 4.
 3SG—
 3SH—Gourdie, W., 18 Anvers Place, Spreydon, Christchurch, 2.
 3SI—Little, G. W., 81A Banks Avenue, Christchurch, 6.
 3SJ—Fraser, G. J., 206 Major Hornbrook Rd., Christchurch, 8.
 3SK—Patrick, T. L., 422 Innes Road, Christchurch, 5.
 3SL—Leeming, D. S., 621 Gloucester Street, Christchurch 6.
 3SM—Driver, K. R., 18 Wildberry Street, Christchurch, 2.
 3SN—Oldham, J. E., 40 Russell Street, Westport.
 3SO—Kilkelly, J. W., Haselden Street, Westport.
 3SP—Allan, J. L., 102 Warrington Street, Christchurch, 1.
 3SQ—van Valkenburg, V. M., 30 Tuckers Road, Christchurch 5.
 3SR—Webster, R. D., Flat 3, 45 Peverel St., Christchurch 2.
 3SS—Langrish, T. F., 36 Bowenvale Avenue, Christchurch, 2.
 3ST—New Zealand Army Signals, 3 Squadron (Trustees, D. S. McKenzie and G. D. Slocombe, Addington Military Barracks, Christchurch.
 3SU—Phillips, D. I., Market Cross, Karamea.
 3SV—Watson, G. L., 22 Kimberley Street, Christchurch 5.
 3SW—Whitehead, W. S., 22 Cranbrook Ave., Christchurch, 5.
 3SX—Silcock, F. N., 26 Sylvia Street, North Brighton, Christchurch, 7.
 3SY—Thomas, P. A., 270 Centaurus Road, Christchurch, 2.
 3SZ—Dalrymple, D. L., 65 Frankleigh St., Christchurch, 2.
 3TA—Ritchie, M. V. H., 11 Hands Road, Hillmorton, Christchurch, 2.
 3TB—Somerville, J. D., Kaniere, via Hokitika.
 3TC—Brett, T. M. (Mrs.), 17 Josephine Street, Greymouth.
 3TD—Perkins, J. A., 197 Ilam Rd, Fendalton, Christchurch 4.
 3TE—Turner, J. N., 8 Roseneath Place, Christchurch, 2.
 3TF—Isles, P. R., 50 Woodville Street, Christchurch, 1.
 3TG—Copland, G. M., 11 Peel Street, Christchurch 5.
 3TH—Gould, P. N., No. 10 R.D., Waimate.
 3TI—Button, B. H., 86 Lake Terrace Road, Burwood, Christchurch, 6.
 3TJ—Currie, W. J., 151 Westminster Street, Christchurch.
 3TK—Martin, D. F., 28 High Street, Greymouth.

3TL—Paterson, M. S., 120 Hastings Street, Christchurch, 2.
 3TM—Buchanan, W. A., 167 Sewell Street, Hokitika.
 3TN—Dowling, D. W., No. 2 R.D. airview, Timaru.
 3TO—Harvey, S. J., 4 Lochee Road, Christchurch, 4.
 3TP—McLean, A. G., 24 Rugby Street, Timaru.
 3TQ—Agnew, G. A., 282 Waterloo Road, Hornby, Christchurch, 4.
 3TR—Haynes, J. C., 26 Roosevelt Avenue, Christchurch, 1.
 3TS—Smith, A. E., 23 Deloraine Street, Christchurch 2.
 3TT—Roberts, N. M., 21 Rutherglen Avenue, Christchurch 4.
 3TU—Sharnock, M. A., 68 Glenroy Street, Christchurch, 6.
 3TV—Greene, R. S., 89 Shakespeare Street, Greymouth.
 3TW—Riley, T. R., 19 Sullivan Ave., Opawa, Christchurch, 2.
 3TX—Strong, W. S., 20E Hackthorne Road, Christchurch, 2.
 3TY—McQuarrie, R. J., 14 Weenink Road, Greymouth.
 3TZ—Tarlton, I. M., Hawthornden Road, Christchurch, 4.
 3UA—Mulholland, F. S. T., 4 Bramwell Street, Dailinton, Christchurch, 2.
 3UB—Stevenson, H. H., 47 Opawa Road, Christchurch, 2.
 3UC—Eden, G. C., 19 Arlington Street, Christchurch, 5.
 3UD—Duxbury, I. C., Pigeon Bay R.D., Duvauchelle.
 3UE—Edwards, R. J. G., 226 Greens Road, Christchurch, 5.
 3UF—Prue, B. O., 111 Union Street, New Brighton, Christchurch, 7.
 3UG—Taylor, K. P., 2 Bowenvale Avenue, Christchurch, 2.
 3UH—Lewitt, T. W., 3 Pound Street, Amberley.
 3UI—Meredith, F. P. R., 21D Dyers Pass Rd, Christchurch 2.
 3UJ—Kilday, W. J., 269A Woodham Road, Christchurch 6.
 3UK—Chisholm, L. D., 8 Gibbon Street, Waltham, Christchurch, 2.
 3UL—Smith, A. F., 39 Wesley Street, Kaiapoi.
 3UM—Boyes, G. S., 6 Marshall Street, Christchurch, 2.
 3UN—Marshall, A. J., No. 7 R.D., Ashburton.
 3UO—Hutton, F. W. A., 17 Manhire Street, Spreydon, Christchurch, 2.
 3UP—McNicholl, M. W., 32 English Street, Christchurch, 4.
 3UQ—Black, A. W., 48 Checketts Avenue, Halswell, Christchurch, 3.
 3UR—South Canterbury Branch N.Z.A.R.T. (Inc.) (Trustee, M. O. Johnstone), 32 Newton Street, Timaru.
 3US—Houseman, W., 115 Warren Crescent, Christchurch, 2.
 3UT—Hartley, D., 23 Wellington Street, Linwood, Christchurch, 1.
 3UU—Gordon, M., 3 Rydall Street, Christchurch, 2.
 3UV—Coles, L. F., 232 Shortland Street, Christchurch, 6.
 3UW—Conroy, H., 51 Bellbrook Cres., Shirley, Christchurch 1.
 3UX—Wass, L. H., 1 Kissell Street, Tempierton, Christchurch, 4.
 3UY—Dobson, E., Clandeboye, Temuka.
 3UZ—McKenzie, C. D., 333 Wainoni Road, Christchurch, 7.
 3VA—Williams, D. T., 13 Liggins Street, Christchurch, 6.
 3VB—Winter, D., 8 Bareta Street, Christchurch 2.
 3VC—Walton, W. E., 74 Paten Street, Christchurch 6.
 3VD—
 3VE—
 3VF—Breen, A. I., 45 Glandovey Road, Christchurch, 5.
 3VG—
 3VH—Reilly, A. C., 6 Jocelyn Street, Christchurch, 5.
 3VI—Meade, M. P., 9 Nile Street, Timaru.
 3VJ—MacGeorge, A. A. G., 10 Manurere Street, Christchurch, 4.
 3VK—Lawrence, J. E., 25 Andrew Street, Timaru.
 3VL—Ellen, S. N., 65 Dunedin Street, Papanui North, Christchurch, 5.
 3VM—Maloney, M. E., 20 Cleveland Street, Christchurch 1.
 3VN—Bradley, J. N., 169 Weston Road, Christchurch, 5.
 3VO—Elder, J., 76 Bickerton Street, Christchurch, 6.
 3VP—Bradshaw, G. J., 159 Ashgrove Terrace, Christchurch 2.
 3VQ—Senior, J. P., c/o Tai Tapu Post Office.
 3VR—Ross, A., 35 Purau Avenue, Diamond Harbour.
 3VS—
 3VT—Grenon, J. W., 58 Monks Spur Road, Redcliffs, Christchurch, 8.
 3VU—Hayes, R. S., Manse Road, Leeston.
 3VV—Hornby and District Radio Club (Trustees: A. W. Black and A. F. Gledhill), 140A Holmes Park Reserve, English Street, Christchurch, 4.
 3VW—Winskill, I. E., Caverhill, No. 1 R.D., Cheviot.
 3VX—Parry, R. I., 37 Greenpark Street, Hoon Hay, Christchurch, 2.

ZL—

3VY—
3VZ—
3WA—Devlin, P. J., Catholic Presbytery, Craigie Avenue, Timaru.
3WB—Russell, J., 3 Hussar Place, Christchurch 2.
3WC—
3WD—Gilbert, G. R., 3 Lyttelton Street, Lincoln.
3WE—Longson, H. J. O., 21 Kinnaird Place, Spreydon, Christchurch, 2.
3WF—Wade, D. L., 27 Telford Street, Christchurch, 6.
3WG—Baird, J. F., 98 Studholme Street, Christchurch, 2.
3WH—St. Andrew's College Radio Club (Trustee, G. W. Little), Papanui Road, Christchurch, 5.
3WI—
3WJ—Young, W. H., Flat 1, 23 Carlton Mill Road, P.O. Box 25058 Christchurch.
3WK—Martin, E. (Mrs), 867 Ferry Road, Christchurch 2.
3WL—
3WM—Oliver, J. A., 50 Twyford Street, Bryndwr, Christchurch, 5.
3WN—Askey, G., 14 Gilby Street, Christchurch 1.
3WO—Welsh, L. D., 18 Woodland Place, Christchurch 7.
3WP—Reefton-Buller Branch NZART (Trustee, T. E. Wallis) 88 Wakefield Street, Westport.
3WQ—Mackey, C. J., 58 Firth Street, Cobden, Greymouth.
3WR—Martin, V. E., 867 Ferry Road, Christchurch 2.
3WS—Christchurch Branch N.Z.A.R.T. (Trustee, D. J. Mackay), Galbraith Avenue, Christchurch, 2.
3WT—Duncan, M. W., 7 Hinton Road, Greymouth.
3WU—Jeffery, I. W., Schoolhouse, Chertsey.
3WV—Rigby, F., 54 Greenpark Street, Christchurch, 2.
3WW—Werry, B. W., 123 Dyers Pass Road, Christchurch, 2.
3WX—Smellie, B., 19 Greenfield Place, Christchurch, 5.
3WY—Campbell, B. E., 10 Coronada Place, Christchurch, 4.
3WZ—Wallis, T. E., 88 Wakefield Street, Westport.
3AAA—Garlick, R. A., 23 Lydia Street, Greymouth.
3AAB—Garlick, Mrs Z. H., 23 Lydia Street, Greymouth.
3AAC—
3AAD—Alderson, G. E., 14 Lombard Place, Christchurch, 4.
3AAE—Millard, H. W., 41 Jeffreys Road, Christchurch, 5.
3AAF—McClimont, D. J., 6 Leistrella Road, Christchurch 2.
3AAG—Batterbury, C., 127 Pages Road, Christchurch, 6.
3AAH—O'Brien, W. M., 255 Estuary Road, Christchurch 7.
3AAI—
3AAJ—Werner, S. H., 74 Seven Mile Road, Runanga.
3AAK—
3AAL—Allan, E. J. (Mrs), 44 Marshland Road, Christchurch 6.
3AAM—Pennington, M. H., 43 Suva Street, Christchurch 4.
3AAN—Colville, L. M., 75 Cameron Street, Ashburton.
3AAO—
3AAP—Ashburton Air Scout Group (Trustee, A. J. Marshall), Manio-o-roto Park, Chalmers Avenue, Ashburton.
3AAQ—Banks, L. F., Buller Gorge, Private Bag, Westport.
3AAR—Robinson, B. S., 8 Breens Road, Christchurch, 5.
3AAS—
3AAT—Hooper, R. L., 24 Woodbury Street, Christchurch, 4.
3AAU—Miller, J. G., 30 Fairfield Street, Christchurch 5.
3AAV—Hart, L. J. W., 61 Wakefield Street, Westport.
3AAW—
3AAX—Clark, E. R., 5 Chedworth Avenue, Christchurch, 5.
3AAY—Bowie, A. F. S., 99A St Andrews Square, Christchurch 5.
3AAZ—Allan, L. L. (Mrs), 102 Warrington Street, Christchurch, 1.
3ABA—Allan, S. L., 102 Warrington Street, Christchurch 1.
3ABB—McKay, D. J., 55 Wingate Street, Christchurch, 5.
3ABC—Hooker, R. O., 272 Wainoni Road, Christchurch, 7.
3ABD—Hancock, C. W. I., 21 Sparks Road, Spreydon, Christchurch 2.
3ABE—
3ABF—Webbink, J. H., 11 Wattle Drive, Christchurch, 7.
3ABG—Winter, M. F., 19 Kaplan Avenue, Christchurch, 4.
3ABH—Daniel, E. H., 189 Buchanan Road, Christchurch 4.
3ABI—Hagley High School Radio Club (Trustee, A. S. Asher), Hagley High School, Hagley Avenue, Christchurch, 1.
3ABJ—Jensen, B. D., 51 Parklands Drive, Christchurch 2.
3ABK—Keen, R. A., 36 Lindsay Street, Timaru.
3ABL—Brookes, I. A., 34 Allnatt Street, Temuka.

ZL—

3ABM—Armstrong, S. R., 53 Flay Crescent, Christchurch, 5.
3ABN—
3ABO—Hendry, B. O., 95 Springs Road, Christchurch 4.
3ABP—
3ABQ—Hussey, E. C., 299 Waimairi Road, Christchurch, 4.
3ABR—MacPherson, V. R., 40 Fovant St., Christchurch, 4.
3ABS—Smith, G. B., 117 Somerfield St, Christchurch 2.
3ABT—Venturer Unit, Fendalton Scout Group Radio Club (Trustee, A. B. Thornton, 7 Idris Road, Fendalton, Christchurch, 5.
3ABU—Cashmere High School Radio Club (Trustee, W. N. Lenz), Rose Street, Cashmere, Christchurch, 2.
3ABV—Jackson, P., McQueens Road, Cheviot.
3ABW—Canterbury University Electronics Society (Students' Association) (Trustees, E. J. Allan and T. L. Patrick), University of Canterbury, Ilam, Christchurch, 1.
3ABX—Lovett, G. L., 81 Grove Street, Tinwald.
3ABY—Cuttle, T. R., C/o ANZ Bank, Christchurch.
3ABZ—Churchill, T. S., 5 Albert Street, Ashburton.
3ACA—Wilmshurst, C. W., 17 Stourbridge Street, Christchurch, 2.
3ACB—Mollison, G. W. P., 148 Kendal Ave., Christchurch, 5.
3ACC—Chambers, C. H., 19 Avro Crescent, Christchurch 4.
3ACD—
3ACE—Dodgshun, J. C., 20 Rugby Street, Merivale, Christchurch, 1.
3ACF—Richardson, J. T., 3 Monowai Cres., Christchurch, 7.
3ACG—Heyward, K. W., 61 Niven Street, Christchurch, 7.
3ACH—Edginton, A. L., 103 Grants Road, Timaru.
3ACI—Shirley Boys' High School Radio Club (Trustees, C. J. Wornall and M. O. Milner), North Parade, Christchurch, 1.
3ACJ—Parker, T. L., 28 Brent Place, Christchurch, 5.
3ACK—Leeming, N. V., 48 Woodward Terrace, Christchurch, 2.
3ACL—Lemon, K. A., 4 Dufek Crescent, Christchurch, 4.
3ACM—Eaton, I. L., 479 Madras Street, Christchurch 1.
3ACN—Honey, R. M., 167 Brittan Street, Hokitika.
3ACO—Brown, N. W., 20 Sydney Street, Spreydon, Christchurch, 2.
3ACP—Saint Patrick's High School Radio Club (Trustee Fr. D. J. Devlin), Wellington Street, Timaru.
3ACQ—
3ACR—Weston, D. V., 33 Fovant Street, Christchurch.
3ACS—Borgfeldt, C. D., 37 Blankney Stret, Hornby, Christchurch, 4.
3ACT—Patten, G. J., 435 Lower Styx Road, Christchurch, 5.
3ACU—McKay, B., 23 Palmside Street, Christchurch, 2.
3ACV—Hickm, K. K. A., 46A Division Street, Christchurch 5.
3ACW—Crawford, W. E. H., 29 Bounty St., Christchurch, 5.
3ACX—Robbins, K. F., 83 Springfield Road, Christchurch, 7.
3ACY—Lander, C. R., 47 Bush Street, Rangiora.
3ACZ—Ingram, R. T., 80 Romilly Street, Westport.
3ADA—Bell, R. W., 32 Flower Street, Christchurch, 5.
3ADB—Jacobs, P. S., 124 Southampton St., Christchurch, 2.
3ADC—Hale, K. I., 99 Hoon Hay Road, Christchurch, 2.
3ADD—Mahoney, M. F., St Bedes College, Main North Road, Christchurch, 5.
3ADE—Ayre, G., RNZAF Station, Wigram, Christchurch, 4.
3ADF—Schroeder, W. F., 66 Shakespeare Street, Greymouth.
3ADG—Burnside High School Radio Club (Trustee, D. W. Anderson, Greens Road, Christchurch, 5.
3ADH—Boote, R. J., 8 Hinton Road, Greymouth.
3ADI—Ingram, A. W. W., 67 Parkstone Avenue, Christchurch 4.
3ADJ—Jennings, L. W., 5 Ilex Place, Kaiapoi.
3ADK—Fitzgerald, K. P., 43 Sevenoaks Drive, Christchurch 5.
3ADL—Lenz, W. N., 139B Hackthorne Road, Christchurch, 2.
3ADM—Milner, M. O., 36 Hammersly Ave., Christchurch, 1.
3ADN—Lowther, B. L., Rosstown, Reefton.
3ADO—Bramley, K. J., 42 Lambeth Crescent, Christchurch, 5.
3ADP—MacDonald, D. C., Cnr Railways Terrace and Elizabeth Avenue, Rakaia.
3ADQ—Filicky, S. V., 242 Fitzgerald Avenue, Christchurch 1.
3ADR—Pritchard, B. D., 9 Dymock Place, Christchurch, 5.
3ADS—Squire, D. D., Waitohi, Temuka.
3ADT—Troon, P. M., 92 Michael Street, Rakaia.
3ADU—McGlenn, A. J., 42 Lambeth Crescent, Christchurch 5.
3ADV—Phillips, R. W., 31 Appleby Crescent, Christchurch, 5.
3ADW—Phillips, Mrs H. J., 31 Appleby Crescent, Christchurch, 5.
3ADX—
3ADY—Cady, F. M., 52 Aorangi Road, Christchurch, 5.

ZL—

3ADZ—Carney, W. J., Flat 6, 92B Middlepark Road, Christchurch 4.
 3AFA—Kelly, C. W. B., 318 Ilam Road, Christchurch 5.
 3AFB—
 3AFC—Clausen, A. F., 26 Tirirau Place, Christchurch 4.
 3AFJ—Jacobson, A. F., 9 Gainford Street, Christchurch.
 3TAA—
 3TAB—Hyde, I. E., 4 Powell Crescent, Christchurch.
 3TAC—Collins, B. A., 21 Manor Place, Christchurch, 5.
 3TAD—
 3TAE—Wilson, M. J. G., 23 Vauxhall Street, Christchurch, 5.
 3TAF—Ford, P. J., 38 Gardners Road, Christchurch, 5.
 3TAG—Down, S. J., 219 Grahams Road, Christchurch, 5.
 3TAH—Wignall, T. J. S., 15 Plymmon Road, Christchurch 5.
 3TAI—Dumbleton, R. S., 1 Blighs Road, Christchurch 5.
 3TAJ—Burgess, E. C. B., Flat 2, 24B Prossers Road, Christchurch, 2.
 3TAK—Long, R. O., 103 Grey Street, Ashburton.
 3TAL—Mackintosh, R. M., Main North Road, Ohoka R.D., Kaiapoi.
 3TAM—Mason, G. J., 6 Bideford Place, Christchurch, 6.
 3TAN—Vanden Broek, C. P. A., 383 Greers Road, Christchurch 5.
 3TAO—
 3TAP—Craig, A. J., 22A Aitken Street, Ashburton.
 3TAQ—Finlay, P. T., 36A Sturge Street, Cobden.
 3TAR—Roswell, A. F. M., 2 Evans Ave, Christchurch, 7.
 3TAS—Harris, G. B., 57 Kensington Ave, Christchurch 1.
 3TAT—Baker, E. J. A., 93 King Street, Rangiora.
 3TAU—
 3TAV—Parr, W. B., 105 Springs Road, Christchurch 4.
 3TAW—Muir, D. N., 12 Manning Place, Christchurch 2.
 3TAX—Churchward, M. J., 211 Fifield Terrace, Opawa, Christchurch, 2.
 3TAY—
 3TAZ—Greer, R. B., 302 Greers Road, Christchurch, 5.
 3TBA—Hall, A. N., 18 Waimairi Road, Christchurch, 4.
 3TBB—McHugh, M. J., 10 Tilford Street, Christchurch 6.
 3TBC—Grenfell, A. D., 25 Warblington Street, Christchurch 7.
 3TBD—Symonds, A. C., 16 Beasant Place, Christchurch, 7.
 3TBE—Pritchard, D. V., 2 Andrew Street, Timaru.
 3TBF—Lander, R. C., 60 Victoria Street, Rangiora.
 3TBG—O'Neill, T. J., 89 Pages Road, Christchurch, 6.
 3TBH—
 3TBI—Hosking, K. F., Cnr Shands and Blakes Road, 4 R.D., Christchurch.
 3TBJ—Baird, K. A., 18 Gray Crescent, Kaiapoi.
 3TBK—Foster, I. M., 30 Staveley Street, Christchurch 4.
 3TBL—
 3TBM—Love, G. T., No. 2TTS, RNZAF Base, Wigram.
 3TBN—
 3TBO—Hall, C. L., 20 Sumner Street, Spreydon, Christchurch, 2.
 3TBP—Evans, J. S., 11 Eros Place, Christchurch 7.
 3TBQ—
 3TBR—Black, D. R., 51B Marsden Avenue, Greymouth.
 3TBS—Stevenson, R., 39 Everest Street, Christchurch, 5.
 3TBT—Lee, M. O., 82 St. Martins Road, Christchurch, 2.
 3TBU—Knight, B., 115 Main South Road, Greymouth.
 3TBV—Heazlewood, C. R., 4 Westmorland Place, Christchurch 4.
 3TBW—
 3TBX—Wylie, P. B., 101 Englefield Road, Belfast, Christchurch, 5.
 3TBY—
 3TBZ—Sintes, P. D., 410 Cashmere Road, Christchurch, 3.
 3TCA—White, A. S., 321 Withells Road, Christchurch, 4.
 3TCB—Ashley, K. J., 16 Rugby Street, Waimate.
 3TCC—Heney, R. D., 15 Rhodes Street, Timaru.
 3TCD—McGregor, W. L., 28 Swanns Road, Christchurch 1.
 3TCE—Cobb, P. B., 351 Lyttelton Street, Christchurch, 2.
 3TCF—Newton, G. R., 30 Tomes Road, Papanui, Christchurch, 5.
 3TCG—Uden, B. G., Claremont Road, R.D. 4, Timaru.
 3TCH—Chapman, M. H., 122 Pine Avenue, Christchurch 7.
 3TCI—Barwick, L. G. A., 54 Chancellor Street, Christchurch.
 3TCJ—Harbeck, A. D., 28 Martbern Crescent, Christchurch 5.
 3TCK—
 3TCL—Hamilton, J. C., 178 Halswell Junction Road, Christchurch 2.
 3TCM—Rickerby, D. R., 31 Kendal Avenue, Christchurch, 5.
 3TCN—Money, G. N. C., 26 A Tankerville Road, Christchurch 2.
 3TCO—Percy, E. A., 239 Condell Avenue, Papanui, Christchurch, 5.

ZL—

3TCP—Parish, I. J., 98 Richard Pearse Drive, Temuka.
 3TCQ—
 3TCR—Ching, K. E., 6 Rata Street, Rangiora.
 3TCS—Sandford, B. D., 45 Torrens Road, Christchurch, 2.
 3TCT—Inglis, J. McN., 290 Estuary Road, Christchurch, 7.
 3TCU—Duxbury, J. S., 12 Rydal Street, Christchurch, 2.
 3TCV—Drayton, G. W., 113B Rockinghorse Road, Christchurch, 7.
 3TCW—Wilson, L. C., Washdyke, Timaru.
 3TCX—Tapp, M. I., 30 Jollie Street, Christchurch, 6.
 3TCY—Watson, J. P., 49 Canada Street, Timaru.
 3TCZ—Davis, N., 497 Cashel Street, Christchurch 1.
 3TDA—
 3TDB—Milne, O. D., 137 Southampton Street, Christchurch 2.
 3TDC—Thomson, R. Y., 25 Princess Street, Temuka,
 3TDD—Marks, J. W. J., 178A Lyttelton Street, Christchurch 2.
 3TDE—
 3TDF—Yos, P. M., 15 McSavenys Road, Christchurch 5.
 3TDG—Wood, M. K., 15 Ardmore Place, Christchurch 5.
 3TDH—
 3TDI—White, Q. D. L., 321 Withells Road, Christchurch 4.
 3TDJ—Herbert, S. J., Levels, 4 R.D., Timaru.
 3TDK—
 3TDL—Harris, J. R., 424 Marine Parade, Christchurch, 7.
 3TDM—Harding, J. M., 641 Main North Rd, Christchurch, 5.
 3TDN—Tait, J. J., 30 Hargood Street, Christchurch, 6.
 3TDO—Cottle, D. E., 427 Lower Styx Road, Christchurch, 5.
 3TDP—Maclean, M. R., 6 Athol Place, Timaru.
 3TDQ—Downey, E. J., 67 Tuckers Road, Christchurch 5.
 3TDR—Smith, K. J., 17 Tyne Street, Timaru.
 3TDS—Tombling, F., 4 Sarah Street, Timaru.
 3TDT—Drury, B. D., 20 Ryland Avenue, Fendalton, Christchurch, 4.
 3TDU—
 3TDV—Wyles, G. L. M., 416 Memorial Avenue, Christchurch 5.
 3TDW—
 3TDX—Woods, B. M., 2 Cresswell Avenue, Christchurch 6.
 3TDY—Hayes, W. F., 90 Wright Street, Cobden.
 3TDZ—Tasker, G. W., 58A Cobham Street, Christchurch 2.
 3TFL—Malcolm, C. R., 14 Caledonian Road, Christchurch 1.
 3TFA—Middlemiss, P. G., Otahunu House, Rhodes Road,
 3TFB—Henden, J. R., 221 Innes Road, Christchurch, 5.
 3TFC—Williams, I. G., R.N.Z.A.F. Base, Wigram.
 3TFD—Rhodes, D., Highfield Avenue, Dunsandel.
 3TFE—Emerson, R. W., 427 Hills Road, Christchurch, 5.
 3TFF—Fuller, G. M., 79 Woolley Street, Christchurch, 7.
 3TFG—McCulloch, E. N., 21 Norwich Street, Christchurch 6.
 3TFH—Tait, J. D., 30 Hargood Street, Woolston, Christchurch, 6.
 3TFI—Wright, B. A., 38 Strowan oad, Christchurch, 5.
 3TFJ—Lundy, R. J., 47 White Street, Rangiora.
 3TFK—Christian, J. D., 5B Sonia Place, Christchurch, 5.
 3TFL—
 3TFM—
 3TFN—
 3TFO—
 3TFP—Vincent, R. K., 5 Miro Street, Karoro, Greymouth.
 3TFQ—
 3TFR—Talbot, I. C., 290 Montreal Street, Christchurch 1.
 3TFS—Soal, D. F., 115 Creek Road, Ashburton.
 3TFT—Codd, L. B., 74 Hewitts Road, Christchurch 1.
 3TFU—
 3TFV—Jeffery, K. R., 20 Kinloch Street, Christchurch, 1.
 3TFW—Baker, T. L., 6 Burnett Street, Timaru.
 3TFX—
 3TFY—Tizzard, R. W., 12 Rosebery Street, Christchurch, 2.
 3TFZ—Wilson, D. W. T., Seafield, No. 7 R.D., Ashburton.
 3TGA—Aitken, G. D., 38 Hooker Avenue, Bryndwr, Christchurch, 5.
 3TGB—Hancock, S. C., 21 Sparks Road, Spreydon, Christchurch, 2.
 3TGC—Whitlow, J. J., 84 West Belt, Rangiora.
 3TGD—Digby, N. M., 14 Exeter Street, Christchurch, 1.
 3TGE—Carter, D. R., Mt. Gay, Pleasant Point.
 3TGF—Rae, P. D., 7 Westmoreland Place, Christchurch, 5.
 3TGG—Rusbatch, G. D., 86 Stanbury Ave, Christchurch, 2
 3TGH—Bell, H. R., Upper Parsonage Road, Waimate.
 3TGI—Lintott, N., Ohoka Road, Ohoka, Kaiapoi RMD.
 3TGJ—Galletly, I. L., 26 Mundys Road, Christchurch, 6.

ZL—

3TGK—Brown, P. G., Acton Road, Rakaia.
 3TGL—Van Lindt, R., 34 Gayhurst Road, Christchurch, 6.
 3TGM—
 3TGN—
 3TGO—Goossens, W. E., 35 Banbury Street, Christchurch, 5.
 3TGP—
 3TGO—Sintes, D. J., 481 Marine Parade, Christchurch, 7.
 3TGR—Timewell, I. D., Orton R.D., Timaru.
 3TGS—
 3TGT—Thompson, P. R., 59 Seven Oaks Drive, Christchurch, 5.
 3TGU—
 3TGV—Rowe, B., 250 Grahams Road, Christchurch, 5.
 3TGW—Hamlett, R. S., 9 Hoani Street, Christchurch, 5.
 3TGX—Henry, D. H., 34 Alexandra Street, Christchurch, 1.
 3TGY—Douglas, J. C. (Miss), C/o Post Office, Millerton.
 3TGZ—
 3THA—Stirling, K. W., 85 Grey Street, Ashburton.
 3THB—Cree, R. A., 62 Petrie Street, Christchurch 1.
 3THC—Holden, R. W., 454 Colombo Street, Christchurch, 2.
 3THD—King, A. F., 471 Worcester Street, Christchurch 1.
 3THE—Bartlett, K. E., 1 R.D., Westport.
 3THF—
 3THG—
 3THH—Smith, G. R., 110 Pages Road, Christchurch, 6.
 3THI—Hurrell, M. A., 1 Helmores Lane, Christchurch, 1.
 3THJ—Hilson, H. R., 116 Heaton Street, Christchurch, 5.
 3THK—Errington, G. S., 18 Fendalton Road, Christchurch, 1.
 3THL—Clifford, I. R., R.N.Z.A.F. Base, Wigram.
 3THM—Sandford, N. D., 45 Torrens Road, Hillmorton, Christchurch, 2.
 3THN—Price, G. D., 83 Kerrs Road, Christchurch 6.
 3THO—Melhuish, B. J., 34 St Andrews Hill Road, Christchurch, 8.
 3THP—Platt, R. G., 16 Boston Ave., Hornby, Christchurch, 4.
 3THQ—Corbett, R. K., 1 Dalton Place, Christchurch, 5.
 3THR—
 3THS—Dixon, A. P., Flat 5, 98 Papanui Rd, Christchurch.
 3THT—Lauder, C. D., 100 Papanui Road, Christchurch 1.
 3THU—Barlass, R. J., 18A Lincoln Road, Christchurch 2.
 3THV—
 3THW—Dawson, R., 41 Garlands Road, Christchurch, 2.
 3THX—Ferriss, A. E., 50 Marriner Street, Christchurch, 8.
 3THY—
 3THZ—East, K. R., RNZAF Base, Wigram.
 Tai Tapu.
 3TIA—Milne, I. F., 137 Southampton St., Christchurch, 2.
 3TIB—Jones, D. L., 53 Wales Street, Christchurch, 3.
 3TIC—Lowrie, B. D., 7 Cunningham Place, Christchurch, 5.
 3TID—Dyer, W. M., 25 Bronwyn Street, St. Albans, Christchurch, 5.
 3TIE—Inglis, J. A., 76 Butterfield Avenue, Christchurch, 6.
 3TIF—Novotny, V. G., 47 Nicholls Street, Christchurch 1.
 3TIG—
 3TIH—Britnell, C. B., 35 Wales Street, Christchurch 3.
 3TII—Freeth, G. D., 5 Irvine Street, Christchurch, 2.
 3TIJ—Freeth, C. A., 5 Irvine Street, Christchurch 2.
 3TIK—
 3TIL—Errington, J. C., 39 Helmores Lane, Christchurch 1.
 3TIM—Barbour, G. S., 294 Hereford Street, Christchurch 1.
 3TIN—Prattley, R. H., 15 Waratah Street, Christchurch 7.
 3TIO—O'Brien, C. M., 255 Estuary Road, Christchurch, 7.
 3TIP—Brunton, C. N., 26 Woolley Street, Christchurch, 6.
 3TIQ—Mulvena, M. J., Collinsons Road, Seafeld, 7 R.D. Ashburton.
 3TIR—Williams, P. S., 24 Newnham Terrace, Christchurch, 4.
 3TIS—Carleton, G. R., 2 Rayburn Avenue, Christchurch, 5.
 3TIT—
 3TIU—Greager, D. C., 22 Waitohi Street, Christchurch, 4.
 3TIV—Rodgers, G. K., 36 Coopers Road, Christchurch, 6.
 3TIW—Whelan, P. N., 4A Norwood Street, Timaru.
 3TIX—
 3TIY—Johnson, R. D., 5 Bygrave Place, Christchurch, 5.
 3TIZ—Chappell, P. J., St Andrews College, Papanui Road, Christchurch, 1.
 3TJA—
 3TJB—
 3TJC—O'Connor, G. G., 7 Snell Place, Christchurch, 6.
 3TJD—Moffatt, S. Z., 36A Nile Street, Timaru.
 3TJE—Symes, A. C. O., Franks Road, 6 R.D., Ashburton.
 3TJF—Saunders, B. C., 14 Stackhouse Ave., Christchurch, 5.
 3TJG—Blee, A. R., Ashton, 4 R.D., Ashburton.
 3TJH—Robinson, P. J., 165 Cashmere Road, Christchurch, 2.

ZL—

3TJI—Fright, W. R., Koromiko Crescent, Diamond Harbour.
 3TJJ—Ward, A. J., 82A Randolph Street, Christchurch, 6.
 3TJK—Price, J. G., 9 Banks Street, Timaru.
 3TJL—Stewart, E. A., 30 Breens Road, Christchurch, 5.
 3TJM—Dillon, G. A., 17 Martin Avenue, Christchurch, 5.
 3TJN—Fell, C., 11 Shelley Street, Rolleston.
 3TJO—Barth, M. J., 16 Tui Street, Christchurch 4.
 3TJP—O'Brien, J. R., 7 Armitage Road, Christchurch 5.
 3TJQ—Ives, B. A. P., 51 Hillier Street, Christchurch, 2.
 3TJR—Carter, R. S., 275 Wai-iti Road, Timaru.
 3TJS—Gordon, I. N., 7 Jameson Avenue, Christchurch 5.
 3TJT—Nicol, J. R., 54 Rue Balguerie, Akaroa.
 3TJU—Hawker, B. C., 130 Innes Road, Christchurch 5.
 3TJV—Osborne, K. W., 53 Kent Street, Timaru.
 3TJW—Pyle, S. W., 17 Hudson Street, Christchurch 5.
 3TJX—
 3TJY—Allan, S. E., (Mrs), 102 Warrington Street, Christchurch 1.
 3TJZ—McKim, J. L., 17 Wattle Drive, Christchurch 7.
 3TKA—Phillips, M. A., 1A Cave Terrace, Christchurch 8.
 3TKB—Melville, G. B., 50A Dyers Pass Road, Cashmere, Christchurch 2.
 3TKC—Clark, B. W., 185 Waimairi Road, Christchurch.
 3TKD—
 3TKE—
 3TKF—Seed, B. V., 18 Arthur Street, Christchurch 4.
 3TKG—Woods, P. W., 63 Bainton Street, Christchurch 5.
 3TKH—Cruse, G. E., 52 Cobden Street, Westport.
 3TKI—Empson, T. M., 303 Colombo Street, Christchurch 1.
 3TKJ—Kendall, N. A., 76 Geraldine Street Christchurch 1.
 3TKK—Chapman, A. F., 17 Baker Street, Ashburton.
 3TKL—Lawry, D. W., 112 Westminster Street, Christchurch 1.
 3TKM—Watson, E. W., 35 Retreat Road, Christchurch 6.
 3TKN—Hill, J. R., 163 Ilam Road, Christchurch 4.
 3TKO—Wells, A. L., 77 Ilam Road, Christchurch 4.
 3TKP—
 3TKQ—Graham, W., 2 Head Street, Christchurch 8.
 3TKR—Dwyer, D. S., 47 Wainoni Road, Christchurch 6.
 3TKS—Chapman, A. S., 7 Dellow Place, Christchurch 2.
 3TKT—
 3TKU—Snushall, J. G., "Conway Hills", Private Bag, Kaikoura.
 3TKV—Lang, A. N., Harwarden R.D. North Canterbury.
 3TKW—May, G. A. (Miss), 371 Halswell Road, Christchurch 3.
 3TKX—Patterson, H. W., 33 Leinster Terrace, Lincoln.
 3TKY—Frew, W. R., 10 Palmer Street, Rangiora.
 3TKZ—Creek, A. R., 106 Banks Avenue, Christchurch 6.
 3TLA—Graham, G. J., Flat 2, 699 Worcester Street, Christchurch.
 3TLB—Crawford, C. R., 238 Pine Avenue, Christchurch 7.
 3TLC—Kelly, S. J. C., Flat 2, 23 Percival Street, Christchurch 2.
 3TLD—Ware, P. M., 305 Worcester Street, Christchurch 2.
 3TLE—McCutcheon, J. M., 52 Scarborough Road, Christchurch 8.
 3VHF—Christchurch Branch N.Z.A.R.T. Inc. (Trustees D. J. Mackay and H. F. Arnold), (Beacon station located at 196 Dyers Pass Road).

AMENDMENTS

FOURTH DISTRICT

ZL—

4AA—Bell, F. D., Private Bag, Shag Valley Station, Palmerston.

4AB—

4AC—Robinson, R. E., 94 Moana Crescent, Dunedin.

4AD—Bradwin, C. C., Wharemoa, Popotunoa, I.R.D., Clinton.

4AE—Surrage, A. D., 268B Pine Hill Road, Dunedin.

4AF—Falconer, A. E., Whiterig, No. 1 R.D. Gore.

4AG—Boshier, R. F., 379 Pinehill Road, Dunedin.

4AH—Sansom, W. R., 17 Renfrew Street, Dunedin.

4AI—Shore, K. H., 1 Upland Street, Dunedin.

4AJ—Richardson, A., 90 Ravelston Street, Dunedin, E.1.

4AK—Dowman, W. F., House 22, Aviemore Hydro, Private Bag, Otematata.

4AL—Grubb, A. H. McL., 19 Thomas Street, Gore.

4AM—Earland, F. P., 88 South Rd., Burnside, Green Island.

4AN—Tunncliffe, W. M., 32 Holyhead Road, Outram.

4AO—Allan, A. N., Charlton, No. 4 R.D., Gore.

4AP—Smith, R. C., Pine Bush, No. 5 R.D., Invercargill.

4AQ—Whyte, R. A., 7 Charles Street, Gore.

4AR—Natta, H. W., 137 Bayview Road, St. Kilda, Dunedin, S.2.

4AS—Morris, C. C., 46 Ascot Street, Dunedin.

4AT—Trewick, C. A. (Mrs), 9 Layard Street, Invercargill.

4AU—

4AV—Pickford, L. C., Taiepa Road, Otatara, R.D. 9, Invercargill.

4AW—Pickford, W. J., Black Road, Otatara, 9 R.D., Invercargill.

4AX—Duff, B. F., 69 Elderlee Street, Milton.

4AY—McLeod, J. H., 2 Derwent Street, Invercargill.

4AZ—Sidey, T. K. S., 16 Tolcarne Avenue, Dunedin, N.W.1.

4BA—

4BB—Chapman, H. J., 38 Hargest Crescent, Dunedin.

4BC—Ferris, J. L., Manuhierikia Road, Alexandra.

4BD—Helean, F. P., 1A Passmore Crescent, Dunedin, W.1.

4BE—Whitely, F., 31 Maybank Street, Opoho, Dunedin.

4BF—Smith, L. K., 110 Dome Street, Invercargill.

4BG—Mitchell, J. R., NZBC, Highcliff, R.D. 2, Dunedin.

4BH—Howard, B. H., 33 Malvern St., Woodhaugh, Dunedin, N.1.

4BI—

4BJ—Rowe, C. R., 70 Slaney Street, Bluff.

4BK—McDonald, N. M., 16 Howard Street, Macandrew Bay, Dunedin.

4BL—Wilson, W. F., 4 Wynyard Street, Dunedin.

4BM—Ashley, F. O., Rata Road, Otatara R.D. 9, Invercargill.

4BN—Collett, D. K., Halfmoon Bay, Stewart Island.

4BO—Jackson, V. R., 47 Lorn Street, Invercargill.

4BP—Collett, W. G., 29A Duncan Street, Dunedin, C.2.

4BQ—

4BR—Thompson, H. G., 47 Forth Street, Mataura.

4BS—Burnby, L. A., 135 Kakapo Street, Gore.

4BT—

4BU—

4BV—McConnell, J. R., 73 Banks Street, Invercargill.

4BW—Williamson, B. C., Horrace Street, Cromwell.

4BX—Anderson, J. L., 64 Main Road, Brighton, Dunedin.

4BY—Jenner, M. G., 23 Kenmure Road, Dunedin.

4BZ—

4CA—Harris, A. R., 31 Bush Road, Mosgiel.

4CB—Berry, D. C., 56 Highfield Terrace, Invercargill.

4CC—Checketts, Mrs C. V., 21 Highfield Ter., Invercargill.

4CD—Lunn, J., 4 Glencarron Street, Alexandra.

4CE—Searle, J. H., 113 Eye Street, Invercargill.

4CF—McLaren, A. D., 16 Melbourne Street, South Dunedin.

4CG—Tatton, L. A., Awarua Radio, Private Bag, Invercargill.

4CH—Sprey, W. D., 209 Chelmsford Street, Invercargill.

4CI—Stewart, R. D., 34 Alva Street, Dunedin.

4CJ—Davie, R. S., 415 Herbert Street, Invercargill.

4CK—Wark, A. J., 31 Crammond Avenue, Dunedin.

4CL—Cameron, M. E. (Mrs), 46 Cargill Street, Dunedin.

4CM—

4CN—Peterson, A. McN., 26 Aotea Street, Dunedin, E.1.

4CO—Thomas, R. E., Avon Street, Athol.

4CP—Hunt, A. D., 79 Margaret Street, Invercargill.

4CQ—

4CR—Middleton, C. E., 36 Green Street, Mosgiel.

4CS—Hoggood, D. J., 107 Martin Street, Invercargill.

ZL—

4CT—Southland Boys' High School Radio Club (Trustee: T. W. M. Duerden), Herbert Street, Invercargill.

4CU—

4CV—Walsh, G. J., 30 Mure Street, Mosgiel.

4CW—Macandrew Intermediate School Radio Club (Trustee: J. T. Irving, Macandrew Road, Dunedin).

4CX—Warburton, N. O. (Mrs), 147 Forth St., Dunedin, N.1.

4CY—McNeill, T. J., 39 Eton Street, Otautau.

4CZ—Brain, E. R., 38 Cranley Street, Dunedin.

4DA—Harman, I. A., 49 Alexander Street, Green Island.

4DB—

4DC—

4DD—Anderson, R. A., 39 Glendining Avenue, Dunedin.

4DE—

4DF—Macaulay, W. V., 7 Stirling Street, Dunedin, E.1.

4DG—

4DH—

4DI—

4DJ—Austin, A. J., Riversdale.

4DK—Hunter, S. T., 4 Matai Street, Invercargill.

4DL—Leslie, A. J., 8 Stanley St., Mornington, Dunedin, W.1.

4DM—Crockett, W. M., Glenpark, Dunback Rd, Palmerston.

4DN—Sharp, J. R., 41 Greenhill Avenue, Wakari, Dunedin, N.W.2.

4DO—Dunstan High School Radio Club (Trustee: J. G. Wilkinson), Enterprise Street, Alexandra.

4DP—Grant, J., 155 Eden Street, Oamaru.

4DQ—Wilson, A. B., 105 George Street, Invercargill.

4DR—Irving, J. T., 28 King Street, Mosgiel.

4DS—Carr, D. W., 46 Saunders Street, Dunedin.

4DT—Collett, K. (Mrs), 29A Duncan Street, Dunedin, C.2.

4DU—Stiglish, C. A., 58 Argyle St., Mornington, Dunedin, W.1.

4DV—Shand, J. J., 11 Argyle Street, Dunedin.

4DW—McLeod, R. W., 5 Richardson St., St. Kilda, Dunedin.

4DX—Anstie, S. R., 293 York Place, Dunedin.

4DY—Carlyle, A. L. G., 147 Queen Street, Dunedin, N.1.

4DZ—Marshall, W. M., 17 Corstorphine Road, Dunedin.

4FA—Miles, T. H., 363 Racecourse Road, Invercargill.

4FB—Raper, T. C., Lincoln Street, Hampden.

4FC—McLaren, A. D., 16 Melbourne Street, South Dunedin.

4FD—Hedge, H. G., 52 Earls Road, Dunedin.

4FE—

4FF—Nisbet, A. J., 5 Greenock Street., Dunedin, N.W.2.

4FG—Russell, W. J., 255 Yarrow Street, Invercargill.

4FH—Hall, J. N., 8 Watkin Street, Dunedin.

4FI—Wilkinson, J. G., 77 Russell Street, Alexandra.

4FJ—Austin, F. J., 8 Dunblane Street, Dunedin.

4FK—Dodds, R. B., 9 City Road, Dunedin, N.W.1.

4FL—Farquharson, D. A., Signal Hill, Dunedin.

4FM—Ramsay, K., 244A Herbert Street, Invercargill.

4FN—Egan, Mrs M. A., 152 Reith Street, Dunedin.

4FO—Fail, D. G., c/o N.Z. Electricity Dept., Manapouri.

4FP—McLeod, R. J., 134 Bay View Road, Dunedin.

4FQ—Ballantyne, R. E., 125 London Street, Dunedin.

4FR—Howard, J. G., 4 Hastings Street, Wakari, Dunedin.

4FS—Stevenson, R. F., 16 Upland Street, Dunedin.

4FT—Mitchell, G. L., 42 District Road, Sawyers Bay, Dunedin.

4FU—Thomson, G. B., Milford Street, Gore.

4FV—Sparrow, J. A., 13 Porterfield Street, Macandrew Bay, Dunedin.

4FW—Phillips, R. D., 10 Como Street, Dunedin, N.W.1.

4FX—Creswell, A. F., D.S.I.R. Auroral Station, P.B., Omakau.

4FY—Dunlop, R. M., 17 Sycamore Place, Invercargill.

4FZ—Finlay, C. S., 9 Rennie Street, Green Island, Dunedin, S.W.2.

4GA—

4GB—

4GC—Hayward, A. S., 12 Centennial Avenue, Balclutha.

4GD—

4GE—Hurring, C. J., 3 Aotea Street, Dunedin.

4GF—Groth, M. J., 13 Beaconsfield Road, Portobello.

4GG—Boddy, H. W., 14 Falcon St., Roslyn, Dunedin, N.W.1.

4GH—Culloty, H. F. J., 100 Cavell Street, Tainui, Dunedin.

4GI—Maclean, A. G., 196 Lamond Street, Invercargill.

4GJ—Service, T. R., 77 Carlisle Street, Invercargill.

ZL—

- 4GK—
 4GL—Carrick, W., 8 Howe Street, Dunedin.
 4GM—Ellis, D. N., 9 Avenal Street, Invercargill.
 4GN—Lodge, S. F., 35 Graham Street, Mosgiel.
 4GO—Thomas, M. E., Roxburgh Power Station, Private Bag, Roxburgh.
 4GP—Harris, Mrs E. J., 302 Ettrick Street, Invercargill.
 4GQ—Southland Branch, N.Z.A.R.T. (Inc.). (Trustee, R. N. Checketts, 38 Melbourne Street, Invercargill.)
 4GR—Earland, Mrs M. E., 88 Main Road South, Green Island, Dunedin.
 4GS—Graham, E. J. W., 317 Yarrow Street, Invercargill.
 4GT—Skinner, L. C., Flat 10, Central Fire Station, Castle Street, Dunedin.
 4GU—
 4GV—Seidelin, H. P., 22 Maryhill Terrace, Dunedin.
 4GW—Staite, W. G., 165 George Street, Invercargill.
 4GX—Collie, D. B., 48 Thurso Street, Invercargill.
 4GY—Wills, M. E., 48 Purdue Street, Invercargill.
 4GZ—Applegarth, G., P.O. Box 13, Mosgiel.
 4HA—
 4HB—Russell, V. T., 39 Swinton Street, Invercargill.
 4HC—Waters, M. J., 13 Corrunna St., St. Kilda, Dunedin, S2.
 4HD—Findlater, J. L. L., 51 Gormack Street, Balclutha.
 4HE—Montgomery, A. M., 4 Hoylake Street, Outram.
 4HF—Kindon, H. A. R., 53 Montague Street, Dunedin.
 4HG—McNeill, S. J. E., 125 Musselburgh Rise, Dunedin.
 4HH—Howell, B. C., 57 Chapman Street, Dunedin.
 4HI—Bruce, F., 170 Pine Hill Road, Dunedin.
 4HJ—Bulger, J. W. P., Thomas Street, Ranfurly.
 4HK—
 4HL—Roberts, G. C., 31 Greenhill Avenue, Wakari, Dunedin, N.W.2.
 4HM—McLean, D. H., 16 Dumblane Street, Dunedin.
 4HN—Booth, W. J., Drummond, Southland.
 4HO—
 4HP—Jopp, A. K., Kokonga, Central Otago.
 4HQ—Williams, J. C., 133 Salford Street, Invercargill.
 4HR—Harris, Mrs L. W., 302 Ettrick Street, Invercargill.
 4HS—
 4HT—
 4HU—James Hargest High School Radio Club (Trustee: F. Taylor), Layard Street, Invercargill.
 4HV—Baxter, R. M., 16 Veint Crescent, Queenstown.
 4HW—Robertson, K. W., 29 Lewis Street, Invercargill.
 4HX—Paulson, R., St. Peters School, Kakapo Street, Gore.
 4HY—Baxter, P. M. (Mrs), 16 Veint Crescent, Queenstown.
 4HZ—Hulls, C. H., 46 Grey Street, Invercargill.
 4IA—Baker, J. C., Wanaka.
 4IB—Gray, E. J., 2 Hislop Street, Dunedin, N.E.1.
 4IC—McAnsh, J. C., 197 Ravensbourne Rd., Dunedin, N.E.2.
 4ID—Hill, S. G., 54 Rhodes Street, Dunedin.
 4IE—Mason, J. A., 29 Cannington Road, Dunedin.
 4IF—Christie, J. B., 14 Shandon Road, Dunedin.
 4IG—Fox, A. R. E., 39 David Street (P.O. Box 475), Invercargill.
 4IH—Frame, S. R., 38 Melbourne Street, Invercargill.
 4II—
 4IL—Benson, J. A., 33 Mitchell Avenue, Dunedin.
 4IK—Lucas, D. C., 49 Shotover Street, Queenstown.
 4IL—Salmon, J. D., 7 Picardy Street, Dunedin.
 4IM—Norton, J., Pukerau, Southland.
 4IN—Norrish, I. E., 178 Elles Road, Invercargill.
 4IO—Shuttleworth, H. L., 148 Conyers Street, Invercargill.
 4IP—
 4IQ—Knowles, D. C., 3 Watkin Street, Dunedin.
 4IR—Jensen, M. D., 24 Charlotte Street, Dunedin.
 4IS—Smirk, B. A., 68 Cannington Road, Maori Hill, Dunedin.
 4IT—Sawers, R. N., 32 Leckhampton Street, Caversham Glen, Dunedin.
 4IU—Swale, C. S., 47 Birchwood Road, Ohai.
 4IV—Looser, E. A., 47 Milford Street, Green Island.
 4IW—Holden, P. J., 106 Mornington Road, Dunedin, W.1.
 4IX—Hasler, D. G., Schoolhouse, Omarama.
 4IY—Piercy, H. G., 33 Conyers Street, Invercargill.
 4IZ—
 4JA—McQuillan, H., 15 Metrose Street, Dunedin, N.W.1.
 4JB—Rose, J. R., Otatara, Invercargill.
 4JC—Ritchie, J. R., 666 George Street, Dunedin, N.1.
 4JD—
 4JE—Elliott, J., 109 Wharfedale Street, Dunedin.
 4JF—Means, C. B., Campbell Island.
 4JG—MacDonald, E. R., 264 Main Road, Green Island.

ZL—

- 4JH—Harrow, J. C., 529 Tweed Street, Invercargill.
 4JI—Woods, J. R., Taiepa Rd., Otatara, R.D. 9, Invercargill.
 4JJ—Ferriss, R. J., 5 Derby Street, Green Island.
 4JK—McKechnie, A. J., 20 Sycamore Place, Invercargill.
 4JL—Stewart, R.D., 4 Arawa Street, Gore.
 4JM—Richardson, J., Auroral Station, Private Bag, Omakau.
 4JN—
 4JO—
 4JP—McKenzie, G. A., School Residence, Te Tipua, 4 R.D., Gore.
 4JQ—Torrance, A. M., 5 Hart Street, Dunedin.
 4JR—
 4JS—
 4JT—Jennings, J. T., 39 Marion Street, MacAndrew Bay.
 4JU—Middleton, C. H., 16 Ryehill Street, Dunedin.
 4JV—Johnston, V. J. R., 42 Blacks Road, Dunedin, N.E.1.
 4JW—Watson, R. J., R.D. 6H, Oamaru.
 4JX—Denford, F., 29A Lochend Street, Dunedin.
 4JY—Otago Branch N.Z.A.R.T. (Trustee: H. G. Hedge), 109 Macandrew Road, Dunedin.
 4JZ—Bremner, G. B., c/o P.O., Derwent Street, Naseby.
 4KA—
 4KB—Gearing, W. J., 57 Orbell Street, Dunedin.
 4KC—Air Training Corps Radio Club, No. 12 Invercargill Squadron (Trustee R. A. McNeill), Army Hall, Victoria Avenue, Invercargill.
 4KD—Little, S. G., 96 George Street, Invercargill.
 4KE—Collyer, J. V., Sunderland Street, Clyde.
 4KF—France, K. N., Arthurton, No. 1 R.D., Gore.
 4KG—Rhodes, T. W., 73 Spottiswoode Street, Dunedin, E.1.
 4KH—Braddock, R. F., 39 Norton Street, Gore.
 4KI—Poole, F. L., Marama Avenue, Otatara, Southland.
 4KJ—Robertson, D. C., 148 Main Road, Waikouaiti.
 4KK—Gillick, M. M., 30 Oakland Street, Dunedin, E.1.
 4KL—Taylor, W. R., 17 Thomas Street, Ranfurly.
 4KM—Stanton, K. A., "Ascalon", 19 Bruce Street, Dunedin.
 4KN—
 4KO—Williams, T. J., 48 Every Street, Dunedin.
 4KP—Cochrane, W. G., 29 Yarmouth Street, Balclutha.
 4KQ—Symonds, J. R., Clinton, South Otago.
 4KR—Pearce, A. M., 173 Hellensburgh Road, Dunedin.
 4KS—Orton, A., Church Street, Clinton.
 4KT—
 4KU—Taylor, S. J., 111 Ettrick Street, Invercargill.
 4KV—Patton, J. A., 16 Ward Parade, Bluff.
 4KW—Thomas, R. S., 234A Nelson Street, Invercargill.
 4KX—
 4KY—King Edward Technical College Transmitting Club (W. G. Collett, Trustee), Stuart Street, Dunedin, C.2.
 4KZ—Rosedale Intermediate School Radio Club (Trustee W. J. Reynolds), Layard Street, Invercargill.
 4LA—
 4LB—Beagley, G. T., 5 Ward Street, Momona, Dunedin.
 4LC—
 4LD—
 4LE—Evans, L. M., Tussock Creek, R.D., Invercargill.
 4LF—Masterton, D., 3 Ashmore Street, Dunedin.
 4LG—
 4LH—Milsom, P. S., 20 Lanark Street, Mosgiel.
 4LI—Amon, L. E. S., 669 Castle Street, Dunedin.
 4LJ—MacKenzie, A. I., Taiieri Road, Dunedin.
 4LK—Whitty, M. J., 20 Edinburgh Street, Green Island, Dunedin.
 4LL—Benson, J. A., 33 Mitchell Avenue, Dunedin.
 4LM—Murdoch, F. M., 254 Layard Street, Invercargill.
 4LN—Tall, E. J., 19 Graham Street, Mosgiel.
 4LO—Singleton, J. (Mrs), 37 Thames Street, Invercargill.
 4LP—Sellar, K. R., 16 City Road, Dunedin.
 4LQ—Mackie, J. B., 1 Cobden Street, Dunedin.
 4LR—
 4LS—Howie, G. A., 45 Wharfedale Street, Macandrew Bay.
 4LT—Crook, W., Clarksville R.D., Milton, Otago.
 4LU—
 4LV—Johnson, P. W., Saddle Hill, Dunedin.
 4LW—Kibblewhite, K. C., C.A. Div., Frankton, R.D. 1, Cromwell.
 4LX—Collett, L. M., 75 Gladstone Terrace, Invercargill.
 4LY—

ZL—

4LZ—Telford, B., Ruru Avenue, Otatara, R.D. 9, Invercargill.
 4MA—Ferguson, T. R., 592 Tay Street, Invercargill.
 4MB—Andrews, S. E., 14 Como Street, Dunedin, W.1.
 4MC—McGowan, D. F., 24 Junction Road, Ravensbourne, Dunedin.
 4MD—Hayes, K. J., Ortive Street, Cromwell.
 4ME—Cameron, L. C., 16 Cochran Street, Dunedin.
 4MF—Bell, J. W., 20 Jackson Street, Invercargill.
 4MG—Jones, R. B., 25 Stuart Street, Invercargill.
 4MH—McKenzie, E. D., 18 Sheen Street, Dunedin.
 4MI—Redshaw, L. R. L., Kitt Whanui, Harrington Point Road, R.D. 2, Dunedin.
 4MJ—
 4MK—Kingston, R. W. G., 12 Kennilworth Street, Waverley, Dunedin.
 4ML—Lamont, M. S., 41 Pioneer Crescent, Dunedin.
 4MM—Murray, R. W., Ripponvale, Cromwell.
 4MN—Mosley, J. D., 287 Ythan Street, Invercargill.
 4MO—
 4MP—Crichton, J., 14 Bernicia Street, Port Chalmers.
 4MQ—Reynolds, W. J., 189 George Street, Invercargill.
 4MR—Mabon, A. C., 307 Kenmore Road, Dunedin.
 4MS—Dalliesi, P. J. C., 135 Balmacewan Road, Dunedin.
 4MT—Matheson, J. G., 11 Tainui Street, Gore.
 4MU—McAlevy, M. J., 19 Leckhampton Court, Clyde Hill, Dunedin.
 4MV—Dawson, G. L., c/o Box 22, Tokonui.
 4MW—Ward, W. T. R., 29 Wellesley Avenue, Invercargill.
 4MX—Govan, W. A., 28 Arn Street, Dunedin.
 4MY—Treweek, M. E., 9 Layard Street, Invercargill.
 4MZ—Sherlaw, W. G., Waipori Falls.
 4NA—
 4NB—Barkman, D. J., 65 Playfair Street, Dunedin.
 4NC—Holding, N., 93 Dunrobin Street, Waverley, Dunedin.
 4ND—
 4NE—Paterson, A. J., 15 Trigg Street, Momona Airport, Dunedin.
 4NF—
 4NG—Simmons, R. H., 544 Tay Street, Invercargill.
 4NH—McRadden, P., 18 Fraser Street, Sawyers Bay.
 4NI—Braddock, Mrs A. R., 39 Norton Street, Gore.
 4NJ—Firman, R. K., Campbell Island.
 4NK—Kan, N. C. Y., 90 North Road, North East Valley, Dunedin, N.E.1.
 4NL—Crutchley, F. J., 24 Hunt Street, Dunedin.
 4NM—Taylor, F., 318 Chelmsford Street, Invercargill.
 4NN—Gibb, L., 22 Bridger Street, Dunedin.
 4NO—Davidson, M., 34 View Street, Invercargill.
 4NP—Douglas, R. I., 563 Castle Street, Dunedin, N.1.
 4NQ—Dow, E. J., 144 Taieri Road, Dunedin.
 4NR—
 4NS—Stanley-Jackson, D. B. H., 9 Sawmill Road, Queens-town.
 4NT—No. 46 (Mosgiel) Squadron A.T.C. Radio Club, Trustee, P. S., Milson, Taieri Airport, Dunedin.
 4NU—Mackay, A. J., Montana, 2 R.D., Heriot.
 4NV—
 4NW—Lee, N. P. C., 51 Dome Street, Invercargill.
 4NX—Eteveneaux, D. H., 42 Greenock Street, Dunedin.
 4NY—Young, P. F., New River Road, Winton.
 4NZ—
 4OA—McBeath, D. O., 37 Gala Street, Invercargill.
 4OB—Jackson, G. A., 88 Ravensbourne Road, Dunedin.
 4OC—
 4OD—Parsons, R. D., 69 Oreti Street, Invercargill.
 4OE—Cumming, C. T., 5 Aberdeen St., St. Clair, Dunedin.
 4OF—
 4OG—
 4OH—McNeill, R. A., 58 Lewis Street, Invercargill.
 4OI—Sim, R. J., Henderson Street, Wingatui.
 4OJ—Collie, D. B., 109 Venus Street, Invercargill.
 4OK—
 4OL—
 4OM—Davenport, N. B., 22 Rawhiti Street, Dunedin.
 4ON—Summerell, B. W., "Rockhaven", 397 Queen's Drive, Invercargill.
 4OO—
 4OP—Morris, D. P., 134 Stobo Street, Invercargill.
 4OQ—Davies, K. J. H., Marama Avenue North, Otatara, No. 9 R.D., Invercargill.
 4OR—Reeves, W. A., 205 Tomahawk Road, Dunedin.

ZL—

4OS—
 4OT—Cowan, M. G., 64 Duncan Street, Dunedin.
 4OU—North Otago Branch NZART (Trustee, J. Grant), 155 Eden Street, Oamaru.
 4OV—Major, L. H., 57 Glendinning Avenue, Dunedin.
 4OW—Vincent, S. V., Charles Street, Weston, Oamaru.
 4OX—Checketts, R. N., 21 Highfield Terrace, Invercargill.
 4OY—Montgomerie, J. C., 24 Sydney Street, Invercargill.
 4OZ—Withy, D. G., Flat G, 23 Anglem Street, Invercargill.
 4PA—Lamb, M. A., 90 Princes Street, Invercargill.
 4PB—
 4PC—Sadgrove, P. C., 33 Roseberry Street, Dunedin.
 4PD—Neill, K. G., 38 Teignmouth Street, Green Island, Dunedin.
 4PE—Blyth, B. W., Gap Road, No. 3 R.D., Winton.
 4PF—Palmer, H. L., 95 Glenpark Avenue, Dunedin.
 4PG—Lloyd, D. A., 163 Hillhead Road, Kew, Dunedin.
 4PH—Miller, J. G., 18 Doon Street, Dunedin.
 4PI—Huband, G. J., 70 Spencer Street, Dunedin.
 4PJ—Blain, W. A., 640 Tay Street, Invercargill.
 4PK—
 4PL—Johnstone, H. B., 7 Usk Street, Oamaru.
 4PM—Marsh, P., 12 Frances Street, Broad Bay, Dunedin.
 4PN—
 4PO—Price, L. J., Awarua Radio, Private Bag, Invercargill.
 4PP—Cairns, J. G., Coal Creek, Roxburgh.
 4PQ—Pryde, G. W., 25 Brownville Crescent, Maori Hill, Dunedin.
 4PR—Russell, P. T., 255 Yarrow Street, Invercargill.
 4PS—
 4PT—
 4PU—
 4PV—Virtue, A. D. S., c/o Dept. of Civil Aviation, Frank-ton, No. 1 R.D., Cromwell.
 4PW—
 4PX—
 4PY—
 4PZ—Mullis, N. A., 21 Walter Street, Dunedin.
 4TAA—Barker, W. G., 30 Kowha Avenue, Invercargill.
 4TAB—Olsen, W. J., 60 Rawhiti Street, Dunedin.
 4TAC—
 4TAD—Donnelly, M. L., c/o Awarua Radio, Private Bag, Invercargill.
 4TAE—Thomas, T. M., 10 Farquharson Street, Dunedin.
 4TAF—Nijenhais, H. J., 3 Stone Street, Dunedin.
 4TAG—Enright, A., 22 Main Road, Waldronville, Dunedin.
 4TAH—Smirk, A. H. C., 68 Cannington Road, Maori Hill, Dunedin.
 4TAI—Staynes, C. J., 12 Byron Street, Dunedin.
 4TAJ—Dimmock, C., 92 Exmouth Street, Invercargill.
 4TAK—Hannagan, C. C., 15 London Street, Dunedin.
 4TAL—
 4TAM—Naylor, T. W., 62 George Street, Port Chalmers, Dunedin.
 4TAN—Kramer, K. H., Cnr Humphrey Street and Main Road, Frankton.
 4TAO—Evans, D. F., 39 Longwood Road, Riverton.
 4TAP—Johnston, G. H. L., 230 Talbot Street, Invercargill.
 4TAQ—Howell, A. D., 9 Mercer Street, Balacava, Dunedin.
 4TAR—Kirkby, K. J., 5 Lesley Street, Dunedin.
 4TAS—
 4TAT—Cunninghame, P. J., 63 High Street, Mosgiel.
 4TAU—Richards, O. C., 20 Marine Parade, Macandrew Bay.
 4TAV—
 4TAW—Marshall, W. H., 39 Bellona St., St. Kilda, Dunedin.
 4TAX—Grogan, K. J., Crowe Road, No. 4 R.D., Invercargill.
 4TAY—Field, E. T., 158 Bann Street, Bluff.
 4TAZ—Boyd, R. V., 7 Braemar Street, Mosgiel.
 4TBA—Croy, P. R., 3 Barton Street, Brockville, Dunedin.
 4TBB—Sapwell, H. W., 50 Wray Street, Dunedin.
 4TBC—
 4TBD—Gray, R. M., 33 Bradford Street, Dunedin.
 4TBE—Wilson, D. T., 9 Fenwick Street, Dunedin.
 4TBF—McNamara, B. R., 104 Russell Street, Alexandra.
 4TBG—Gavin, B. M., 240 Highcliff Road, Andersons Bay, Dunedin.
 4TBH—McNeill, P. L., 60 Passmore Crescent, Dunedin.
 4TBI—
 4TBJ—Pycroft, B. E., 10 Ward Street, Momona.
 4TBK—Enright, K. A., 22 Main Road, Waldronville, Dunedin.

ZL—

4TBL—Gordon, S. A., 10 Wye Street, Oamaru.
 4TBM—Roxburgh, A. J., 365 Leith Street, Dunedin.
 4TBN—Cargill, J. J. W., 28 Patrick Street, Mornington, Dunedin.
 4TBO—
 4TBP—Patterson, B. R., 42 Wilkinson St., Liberton, Dunedin.
 4TBQ—Culloty, D. L., Miss, 100 Cavell Street, Dunedin.
 4TBR—Burns, A. H. J., Roebuck Rise, Broad Bay, Dunedin.
 4TBS—Emslie, C. R., 70 Mulford St, Green Island, Dunedin.
 4TBT—
 4TBU—
 4TBV—Mallon, P. R., 522 Tay Street, Invercargill.
 4TBW—Wards, D. J., 140 May Street, Invercargill.
 4TBX—Jago, J. N., 411 Andersons Bay Road, Dunedin.
 4TBY—Anderson, A. E., 488 Taieri Road, Dunedin.
 4TBZ—Fraser, A. G., 3 Union Street, Dunedin North.
 4TCA—Griffith, I. W., 6 Gowry Place, Dunedin.
 4TCB—McTaggart, A. G., 84A Queen Street, Dunedin.
 4TCC—Philpott, J. W., 71 Anglem Street, Invercargill.
 4TCD—Todd, R. J., Naumai Street, Gore.
 4TCE—Wilkins, R. J., 44 Heriot Row, Dunedin.
 4TCF—Wilson, W. B., 59 Queen Street, Otautau.
 4TCG—Hardisty, D. R., 10 Dryden Street, Mosgiel.
 4TCH—Powe, R. L., Waronui, 2 R.D., Milton.
 4TCI—Clifton, J. W., 10 Dryden Street, Mosgiel.
 4TCJ—Knewstubb, F. R., 41 North Taieri Road, Green Island.
 4TCK—Costard, T. J., 219 Highcliff Road, Dunedin.
 4TCL—Allan, A. G., 156 Easter Crescent, Kew, Dunedin.
 4TCM—James, K. D., 117 Lynn Street, Dunedin.
 4TCN—
 4TCO—Edwards, P. J., 33 Durham Street, Dunedin.
 4TCP—O'Reilly, P. R., 161 Bayview Road, Dunedin.
 4TCQ—
 4TCR—Beadle, A. J., 18 Tomahawk Road, Anderson Bay, Dunedin.
 4TCS—Gibson, J. W., 18 Arun Crescent, Invercargill.
 4TCT—Brown, J. A., 18 Forbury Road, Dunedin.
 4TCU—Bryant, D. J., 22 Coney Hill Road, Dunedin.
 4TCV—Skeet, B. R., Monroe Lane, Tarras.
 4TCW—
 4TCX—
 4TCY—Blackley, M. T., 20 Begg Street, Dunedin.
 4TCZ—
 4TDA—Fleury, P. A., 30 Venter Street, Dunedin.
 4TDB—Wilden, J. H., 39 Short Street, Invercargill.
 4TDC—Dickson, K. W., 31 Waikana St., Broad Bay, Dunedin.
 4TDD—Forbes, G. F., 7 Dorset Street, Dunedin.
 4TDE—
 4TDF—Jacob, W. F., 235 Highcliff Road, Dunedin.
 4TDG—Mitchell, J. S., 109 Layard Street, Invercargill.
 4TDH—Singleton, F. C., 65 Matai Street, Te Anau.
 4TDI—Gorman, F. J., 8 Scutari Street, Wyndham.
 4TDJ—Dingwall, A. B., 47 Gilkison Street, Dunedin.
 4TDK—Dwyer, W. A., 21 Serpentine Avenue, Dunedin.
 4TDL—Myer, L., 88 Hocken Street, Kenmure, Dunedin.
 4TDM—
 4TDN—Preddy, S. G., 88 Grendon Street, Dunedin.
 4TDO—Cathro, S. G., 65 Hood Street, Wakari, Dunedin.
 4TDP—
 4TDQ—Maslen, I. A., 62 Chambers Street, Dunedin.
 4TDR—Zoest, A. R., 116 Evans Street, Dunedin.
 4TDS—Blair, S. G., 73 Hocken Street, Dunedin.
 4TDT—Johnson, W. A., 16 Herbert Street, Gore.
 4TDU—Lynn, I. G., 36 Turner Street, Dunedin.
 4TDV—Nisbet, G. J., 5 Greenock Street, Dunedin.
 4TDW—Seay, M. R., 18 Prestwick Street, Dunedin.
 4TDX—Sinclair, D. G., 24 Wilkin Terrace, Otematata.
 4TDY—Morrow, G. I., Flat 4, 163 Queens Drive, Invercargill.
 4TDZ—Brannigan, A., 9 Cumberland Street, Mossburn.
 4TFA—
 4TFB—
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The objects of the Old Timers' Club (ZL) are set out in our constitution adopted in 1954. They are as follows:—

- (a) To recognise service to Amateur Radio.
- (b) To revive and maintain interests and good fellowship among the older members in the common cause.

Membership is available to any ZL amateur who has held an amateur licence for the last 25 years or more and is still an active amateur.

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3. Original call-sign held.
4. Present call-sign and address.
5. Full name and address.
6. Stamped addressed envelope.
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Firstly the propagation characteristics of VHF transmissions can, in most circumstances be accurately predicted. This means that local contacts can be conducted reliably any time of the day or night, in any weather on a virtually noise free and fade free path using only a few watts. By setting up on hill-tops, and during some summer weather, contacts over many hundreds of miles are possible.

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Therefore whether you are an old hand or beginner, interested in operating or experimenting, prefer to buy commercial equipment or construct your own, there is a place for you on the VHF amateur bands. I am sure you won't be disappointed.



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For subscription renewals; Publications Department; changing of postal address (financial members of NZART only) for the posting of *Break-in*; and general enquiries. NOTE: Branch number and membership classification must be on all correspondence, e.g. 05/T (Christchurch Branch member) transmitting.

QSL BUREAU

The QSL Bureau was established by NZART for the purpose of handling inward and outward cards at the most favourable rates possible. The charge for outward cards is one cent each, and there is no charge for inward cards. The service is available to all NZ amateurs whether they be members of NZART or not.

The QSL Manager for NZ is Bill Fouhy, ZL2LB, P.O. Box 489, Wellington.

The District QSL distributors are:

- 1st district: Mr F. Hawthorn, ZL1GX, 77 Wai-nui Ave., Pt. Chevalier, Auckland, W3.
- 2nd district: Mr K. E. Grove, ZL2BBT, 81 Tama Street, Lower Hutt.
- 3rd district: Mr T. J. McKenzie, ZL3RK, 73 Cygnet Street, Christchurch, 7.
- 4th district: Mr P. Marsh, ZL4PM, 12 Frances Street, Broad Bay, Dunedin.

QSL Manager for NZ:

1. Receives inward cards, sorts these into ZL1, 2, 3 or 4 categories, and posts them to the District Distributor in the appropriate district. The cost of this postage is borne by the Bureau.
2. Receives outward cards from individual members or branch distributors and arranges for onward transmission. These cards must be accompanied by a fee of one cent per card, whether they be for NZ or overseas.

District QSL Distributors:

1. Upon receipt of inward cards from ZL2LB, sort them into the various branches in their districts and send them on to the appropriate branch distributor, normally once a month. This postage is paid by the Bureau.
2. Are NOT responsible for handling outward cards or postage of inward cards to individual members.

Branch QSL Distributors:

1. Receive outward cards, with one cent per card, from individual members and forward them to the NZ QSL Manager, P.O. Box 489, Wellington. Individual members can send their cards direct to NZ Manager if desired.
2. Arrange for distribution of inward cards to individual members, by distribution at branch meetings, by personal distribution, through a depot at a local shop, or by direct postage to members who keep them supplied with stamped addressed envelopes of suitable size.

OFFICIAL BROADCAST

Official broadcasts by NZART are made on the last Sunday of each month (except December, when it will be made on the Sunday before Christmas) at 2000 hours NZST from ZL2IY on 3900 kHz. Any Branch wishing to have material included in the official broadcast should forward copy to ZL2IY, before the Friday preceding the broadcast. It should be noted that all material presented in the broadcast has the prior approval of the Post Office.

**A MEMBERSHIP TO N.Z.A.R.T.
costs only \$6.00 per annum.
Junior members at
reduced rates.**

Write today,

GENERAL SECRETARY,
N.Z.A.R.T., P.O. Box 1459,
CHRISTCHURCH.

NEW ZEALAND BEACON AND REPEATER SERVICE

F.M. REPEATER CHANNELS

Channel A : Input 146.20 MHz.
Output 145.50 MHz.

Channel B : Input 146.25 MHz.
Output 145.55 MHz.

Channel C : Input 146.30 MHz.
Output 145.60 MHz.

Channel D : Input 146.350 MHz.
Output 145.65 MHz.

Channel E : Input 146.40 MHz.
Output 145.70 MHz.

Channel F : Input 146.45 MHz.
Output 145.75 MHz.

NEW ZEALAND 2 METRE V.H.F. FIXED— CHANNELS—

F.M. Simplex Channels:

Channel 1 146.00 MHz.
Channel 2 146.05 MHz.
Channel 3 146.10 MHz.

A.M. REPEATER CHANNELS

Channel A : Input 144.60 MHz.
Output 145.725 MHz.

Channel B : Input 144.65 MHz.
Output 145.775 MHz.

Channel C : Input 144.70 MHz.
Output 145.825 MHz.

A.R.E.C. C.D. Communications:
147.25 MHz.
147.50 MHz.
147.75 MHz.

(ESTABLISHED V.H.F. NET FREQS)—

S.S.B. Calling Frequencies in New Zealand:

52.2 MHz.
144.2 MHz.
432.2 MHz.
1296.2 MHz.

S.S.B. Calling Frequencies in Australia:
52.1 MHz.
144.1 MHz.

RESERVED FOR SATELLITES

145.85 to 145.95 MHz.

F.M. REPEATER STATIONS . . .

WHANGAREI: Channel D-FM

(Originally Channel B)
Northland Branch N.Z.A.R.T.
Trustee: W. Adams, ZL1AHV
B. Rowlings, ZL1WB

Power Input : 6 watts.
Location : Mt. Parahaki, N20/850983.
Mode : F.M.
Antenna : Vertical Dipoles.

AUCKLAND: Channel C-FM

(Originally Channel A)
Auckland V.H.F. Group.
Trustee: B. Harding, ZL1TDR

Power Input : 15 watts.
Location : Waitakere Ranges N41/514077.
Mode : F.M.
Antenna : Vertical Dipoles.

WELLINGTON: Channel F-FM

(Originally Channel D)
Wellington V.H.F. Group.
Trustee: G. Love, ZL2TBK
S. J. Wilson, ZL2TAU

Power Input : 20 watts.
Location : NZMS 1 N164 297172
Mode : F.M.
Antenna : Stacked Vertical Dipoles.

NELSON: Channel A-FM

Nelson Branch N.Z.A.R.T.
Trustees: R. Wastney, ZL2AYE.
J. Jackson, ZL2BCG.

Power Input : 15 watts.
Location : Mount Campbell, 4359ft., A.S.L.
Mode : F.M.
Antenna : Collinear 5 element array.

WAIKATO: Channel D-FM

(Originally Channel B)
Waikato V.H.F. Group.
Trustee: I. W. Brown, ZL1TAT.

Power Input : 15 watts.
Location : Mt. Te Aroha.
Mode : F.M.
Antenna : Vertical Collinear Dipoles.

UPPER HUTT: Channel C-FM

(Originally Channel A)
Upper Hutt Branch N.Z.A.R.T.
Trustees: F. Johnson, ZL2AMJ.
J. Meechan, ZL2BHF.

Power Input : 15 watts.
Mode : F.M.).
Location : Mount Climie N161 672,386.
Antenna : Vertical Stacked Dipoles.

PALMERSTON NORTH: Channel D-FM

(Originally Channel B)
 Manawatu Branch N.Z.A.R.T.
 Trustee: H. N. Wiggins, ZL2BFR
 S. J. Cathcart, ZL2BJO

Power Input : 20 watts
 Location : Mt. Stewart NZMS I N143.
 986515.
 Antenna : 5/8th dipoles.

HAWKES BAY: Channel E-FM

(Originally Channel C)
 Hawkes Bay V.H.F. Group.
 Trustee: D. Nunn, ZL2RG

Power Input : 2 watts
 Location : Bluff Hill.
 Antenna : Vertical Dipoles.

PATEA: Channel E-FM

(Originally Channel C)
 Patea Branch N.Z.A.R.T.
 Trustee: J. A. Gunn, ZL2TLY

Power Input : 20 watts
 Location :
 Antenna : Vertical Dipoles.

A.M. REPEATER STATIONS . . .**CHRISTCHURCH: Channel B-AM**

Christchurch Branch N.Z.A.R.T.
 (Inc.)
 Trustee: D. J. Mackay ZL3RW

Power Input : 20 watts.
 Location : Marley's Hill.
 Mode : A.M.
 Antenna : Vertical Dipoles.

TIMARU: Channel C-AM

Timaru Branch N.Z.A.R.T.
 Trustee: M. Johnson ZL3JO

Power Input : 15 watts.
 Location : Mount Horrible, elevation 1500ft.,
 A.S.L.
 Mode : A.M.
 Antenna : Vertical Dipoles.

DUNEDIN: Channel A-AM

Otago Branch N.Z.A.R.T.
 Trustee: D. Carr ZL4DS

Power Input : 20 watts
 Mode : A.M.
 Antenna : 3 element Colinear Vertical
 Location : Signal Hill, Dunedin

NEW PLYMOUTH: Channel C-AM

New Plymouth Branch
 N.Z.A.R.T.
 Trustee: W. T. Watkins ZL2ANC

Power Input : 20 watts.
 Location : Marshall Hill, New Plymouth.
 Mode : A.M.
 Antenna : Vertical Dipoles.

INVERCARGILL: Channel B-AM

Southland Branch N.Z.A.R.T.
 Trustees: T. Service ZL4GJ
 N. Checketts ZL4OK

Power Input : 15 watts
 Location : Bluff Hill.
 Antenna : Vertical Dipoles with Reflectors.

**N.Z.A.R.T. VHF
BEACON STATIONS****ZL1VHF—AUCKLAND V.H.F. GROUP**

Trustee: D. Johnson ZL1AMN

Frequency : 145.1 MHz.
 Operation : Continuous.
 Power Input : 12 watts.
 Mode : Carrier with morse identification
 once every minute.
 Antenna : Ground plane.
 Location : Clubrooms, Mt Roskill.

ZL1VHW—WAIKATO V.H.F. GROUP

Trustee: I. W. Brown, ZL1TAT.

Frequency : 145.15 MHz.
 Operation : Continuous.
 Power Input : 20 watts.
 Aerial : Big wheel (clover leaf). Horizontal
 Location : N.Z.M.S., N66, 386392.
 Mode : A0, A₁, A₂.

ZL2VHF—WELLINGTON V.H.F. GROUP

Trustees: S. J. Wilson ZL2TAU
 G. A. Love ZL2TBK

Frequency : 145.2 MHz.
 Power Input : 20 watts.
 Aerial : Two Yagis, arranged to give a fig-
 ure of eight pattern. One main lobe
 to point north, the other south-
 west.
 Location : NZMS 1 N160 431312
 Elevation : 520ft A.S.L.
 Mode : Callsign and Telemetry FSK.
 Operation : Regular carrier break.
 Continuous.

ZL2UHF—WELLINGTON V.H.F. GROUP

Trustees: S. J. Wilson ZL2TAU
G. A. Love ZL2TBK

Frequency : 431.980 MHz.
Power Input : 20 watts.
Aerial : Two Dipole/reflector units, arranged to give a figure of eight pattern. One main lobe to point north, the other south-west.
Elevation : 1400ft. A.S.L.
Mode : F.S.K.
Operation : Continuous
Location : NZMS 1 N164 297172.

ZL2VHP—MANAWATU BRANCH

Trustee: H. N. Wiggins, ZL2BFR.
S. Cathcart, ZL2TGT.

Frequency : 145.250 MHz.
Power Input : 20 watts.
Antenna : 3 Wire Halo — 4 element Yagi beamed north-west.
Location : Mt. Stewart 175° 29'E & 40° 13'S.
Mode : 800 Hz F.S.K.
Operation : Continuous.

ZL2UHP—MANAWATU BRANCH

Trustee: H. N. Wiggins, ZL2BFR.
S. Cathcart, ZL2TGT.

Frequency : 431-850 MHz.
Power Input : 8 watts.
Aerial : 4 Dipole Array.
Location : Mt. Stewart 175° 29'E & 40° 13'S.
Mode : 800 Hz F.S.K.
Operation : Continuous.

ZL3VHF—CHRISTCHURCH V.H.F. GROUP

Trustee: D. J. Mackay, ZL3RW.

Frequency : 145.3 MHz.
Power Input : 20 watts.
Antenna : Crossed Dipole.
Location : Near Sign of Takahe, Cashmere.
Elevation : Approximately 600ft. A.S.L.
Mode : F.S.K.

ZL4VHF OTAGO BRANCH V.H.F. GROUP

Trustee: D. Carr, ZL4DS.

Frequency : 145.4 MHz.
Operation : Continuous.
Power Input : 15 watts.
Aerial : Big wheel.
Location : Highcliff, Dunedin.
Mode : A1 F.S.K.
Elevation : Approximately 900ft. A.S.L.

REGION 3. AMATEUR BAND BEACONS

VK0	52.525	VK0MX	Mawson
	53.032	VK0TM	Macquarie Island
	53.544	VK0PF	Casey
VK2*	52.200	VK2II	Sydney
VK3	144.700	VK3VE	Vermont
VK4	52.400	VK4WI/2	Townsville
	144.390	VK4VV	near Toowoomba
VK5	53.000	VK5VF	Mt. Lofty
	144.800	VK5VF	Mt. Lofty
VK6	52.006	VK6VF	Bickley
	52.900	VK6TS	Carnarvon
	52.950	VK6VE	Mt. Barker
	144.500	VK6VE	Mt. Barker
	145.010	VK6VF	Bickley
VK7	144.900	VK7VF	Devonport
VK9	144.600	VK9XI	Christmas Island
JA	51.995	JA1IGY	Japan
W	50.091	WB6KAP	U.S.A.
HL	50.100	HL9WI	South Korea
ZK	50.100	ZK1AA	Cook Island
KH	50.101	KH6EQI	Hawaii
	50.015	KH6ERU	Hawaii

* This station operates as a manned beacon, i.e. attended.

AMATEUR BEACONS—

28.165 MHz	VP9BA
28.175 MHz	VE3TEN
28.180 MHz	ZC4CY
28.185 MHz	GB3SX
28.190 MHz	3B8MS
28.195 MHz	DLØIGI
	except 15-20 and 45-50 minutes past each hour.
28.200 MHz	DLØIGI
	transmits 15-20 and 45-50 minutes past each hour.

All repeater stations may be used for Search and Rescue, Civil Defence or A.R.E.C./Post Office emergency communications. Appropriate announcements will be made when repeaters are used. Appropriate callsigns must be used to indicate emergency use, e.g. ZL1EAA etc. or SAR/CD Callsigns as per local schedules.

LEAVE A 3 SECOND BREAK BETWEEN ALL OVERS. MAKE ALL TRANSMISSIONS SHORT AND FREQUENT. DON'T BECOME A REPEATER HOGG!!!!

AMATEUR BANDS IN THE UK

Effective 1 January 1973, the following schedule applies:

Amateur (Sound) and (Sound Mobile) Licences

Footnote No	Frequency bands (MHz) (See (A))	Classes of emission (See (B))	Power	
			Maximum dc input power (See (C) and (D))	RF output p.e.p. for A3A and A3J emissions only (See (D))
1 and 5	1.8—2		10W	26 $\frac{1}{2}$ W
2	3.5—3.8			
	7—7.10 14—14.35 21—21.45 28—29.7		150W	400W
1 and 3	70.025—70.7	A1, A2, A3, A3A, A3H, A3J, F1, F2 and F3	50W	133 $\frac{1}{3}$ W
1 and 4	144—145			
	145—146		150W	400W
1, 7 and 8	430—432	A1, A2, A3, F1, F2 and F3	—	—
1	432—440	A1, A2, A3, A3A, A3H, A3J, F1, F2 and F3	150W	400W
1	1,215—1,325			
1	2,300—2,450			
1	3,400—3,475			
1	5,650—5,850			
1	10,000—10,500			
2 and 9	24,000—24,050		—	—
1 and 9	24,050—24,250			
1 and 6	2,350—2,400	P1D, P2D, P2E, P3D and P3E	25W mean power and 2.5kW peak power	—
1 and 6	5,700—5,800			
1 and 6	10,050—10,450			

Footnotes

1. This band is allocated to stations in the amateur service on a secondary basis on condition that they shall not cause interference to other services.

2. This band is shared by other services.

3. This band is available to amateurs *until further notice* provided that use by the licensee of any frequency in the band shall cease immediately on the demand of a Government official.

4. The following spot aeronautical frequencies must be avoided whenever this band is used: 144.0, 144.09, 144.18, 144.27, 144.36, 144.45, 144.54, 144.63, 144.72, 144.81 and 144.9MHz.

5. The type of transmission known as Radio Teleprinter (RTTY) may not be used in this band.

6. Use by the licensee of any frequency in this band shall be only with the prior written consent of the Minister.

7. This band is not available for use within the area bounded by 53°N 02E, 55°N 02E, 55°N 03W and 53°N 03W.

8. In this band the power must not exceed 10W erp (effective radiated power).

9. Use by the licensee of any frequency in this band shall only be with prior written consent of the Minister and such consent shall indicate the power which may be used, taking into consideration the characteristics of the licensee's station.

(A). Artificial satellites may not be used by stations in the amateur service except in the bands 7–7.10MHz, 14–14.25MHz 21–21.45MHz, 28–29.7MHz, 144–146MHz, 435–438MHz, 24,000–24,050MHz.

(B). The symbols used to designate the classes of emission have the meanings assigned to them in the Telecommunication Convention. They are:

Amplitude modulation

A1 Telegraphy by on-off keying without the use of a modulating audio frequency.

A2 Telegraphy by on-off keying of an amplitude-modulating audio frequency or frequencies or by on-off keying of the modulated emission.

A3 Telephony, double sideband.

A3A Telephony, single sideband, reduced carrier.

A3H Telephony, single sideband, full carrier.

A3J Telephony, single sideband, suppressed carrier.

Frequency (or phase) modulation

F1 Telegraphy by frequency shift keying without the use of modulating audio frequency, one of the two frequencies being emitted at any instant.

F2 Telegraphy by on-off keying of a frequency modulating audio frequency or on-off keying of a frequency modulated emission.

F3 Telephony.

Pulse modulation

P1D Telegraphy by on-off keying of a pulsed carrier without the use of a modulating audio frequency.

P2D Telegraphy by on-off keying of a modulating audio frequency or frequencies or by on-off keying of a modulated pulsed carrier—the audio frequency or frequencies modulating the amplitude of the pulses.

P2E Telegraphy by on-off keying of a modulating audio frequency or frequencies or by on-off keying of a modulated pulsed carrier—the audio frequency or frequencies modulating the width (or duration) of the pulses.

P3D Telephony, amplitude modulated pulses.

P3E Telephony, width (or duration) modulated pulses.

(C). DC input power is the total direct current power input to (i) the anode circuit of the valve(s) or (ii) any other device energizing the aerial.

(D). As an alternative, for A3A and A3J single sideband types of emission, the power shall be determined by the peak envelope power (p.e.p.) under linear operation. The radio frequency output peak envelope power under linear operation shall be limited to 2.667 times the dc input power appropriate to the frequency band concerned. This column gives the maximum power determined by this method which may be used.



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PLESSEY

Structural View of Audio-Technica's VM Stereo Cartridge

The 78% permalloy pole piece is simple-shaped, and suffers least from magnetic loss.

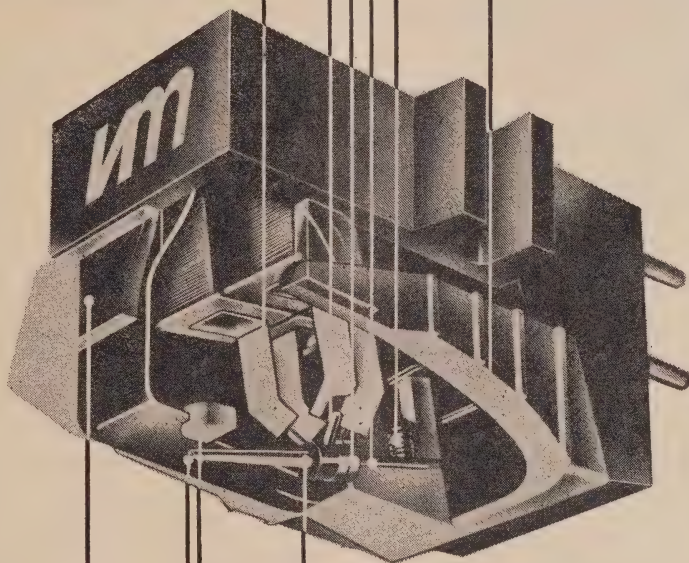
The V-shaped dual magnet conversion element operates with highest fidelity to the 45/45 stereophonic principle.

The double-layered damper, made of special synthetic rubber, has a delicate damping effect.

The suspension string, made of a new crystal high polymer CHP material, holds the center of vibration accurately and surely.

The tension-adjusting screw controls with high precision the characteristics of the vibration system.

The mechanism for mounting and detaching a replacement stylus completely independent of the vibration unit. The stylus holder and the stopper.



The built-in stylus cover with a sure click-stop, free from resonance.

The stylus guard made of elastic material protects the vibration unit from shocks.

The diamond chip, ground to an oval shape, is mounted accurately at a relative angle of 75° without damaging the cantilever.

Light, durable and ideal-shaped Tapered cantilever.

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PL74/28

U.S. AMATEUR FREQUENCY

ALLOCATIONS

	CW only	Phone & CW
Extra Class	3.500— 3.775	3.775— 4.000
	7.000— 7.150	7.150— 7.300
	14.000—14.200	14.200—14.350
	21.000—21.250	21.250—21.450
	28.000—28.500	28.500—29.700
Advanced Class	50.000—50.100	50.100—54.000
	3.525— 3.775	3.800— 4.000
	7.025— 7.150	7.150— 7.300
	14.025—14.200	14.200—14.350
	21.025—21.250	21.270—21.450
General Class	28.000—28.500	28.500—29.700
	50.000—50.100	50.100—54.000
	3.525— 3.775	3.890— 4.000
	7.025— 7.150	7.225— 7.300
	14.025—14.200	14.275—14.350
Novice Class	21.025—21.250	21.350—21.450
	28.000—28.500	28.500—29.700
	3.700— 3.750	50.100—54.000
	7.100— 7.150	
	21.100—21.200	
SSTV Frequencies		Suggested
		3.775— 3.890
		7.150— 7.225
		14.200—14.275
		21.250—21.350
		28.500—29.700
		50.100—54.000

N.Z.A.R.T. OFFICIAL BROADCASTS

The monthly N.Z.A.R.T. Official Broadcast is made by

ZL2IY, Wellington
3900 kHz,

on the last Sunday of each month at 8 p.m. except December, when the broadcast is made on the Sunday before Christmas.

(CONFERENCE OFFICIAL BROADCAST)—

The Official Conference Broadcast (Queen's Birthday Weekend) is held on the Sunday evening at 8 p.m.

Frequency: 3900 kHz.

(A.R.E.C. SECTION LEADERS NET) —

A monthly net of all A.R.E.C. Section Leaders is held on the 3rd Monday of each month at 7.30 net is conducted by the O.C., A.R.E.C., W. D. Gorman, ZL2EX (ZL2IY) on

3900 kHz Upper Side-Band

A GUIDE FOR OVERSEAS AMATEURS

TO OBTAIN A NEW ZEALAND LICENCE

Holders of certificates issued by Australia, Canada, Cook Islands, Niue, United Kingdom and Irish Republic, are recognised as equivalent to Grades I, II or III (New Zealand) as case may be, and granted licence, upon application and payment of fee, i.e.

- (a) No morse or less than 12 w.p.m.—Grade III
- (b) 12 w.p.m. but no evidence of operator experience—Grade II.
- (c) 12 w.p.m. and proven experience—Grade I.

Those licensed under (a) or (b) obtain higher qualifications by passing the appropriate examination in the usual way. A certificate produced to the local engineer's office only is sufficient.

If no certificate but you have some evidence of passing an examination then you would be required to obtain the New Zealand certificate — credit would be given for Section A (theory).

Otherwise applicants would have to sit the full examination in the normal way.

Local District Engineers' Offices:

Auckland:

Federal Street, Auckland.

Wellington:

Cambridge Terrace, Wellington.

Christchurch:

Cathedral Square, Christchurch.

Dunedin:

Chief Post Office Building, Dunedin.

PLAN NOW . . .

N.Z.A.R.T. CONFERENCE ROTORUA

1975

It's going to be a GREAT SHOW

New Zealand Amateur Frequency Allocations . . .

GRADE I

For use by amateurs licensed to operate under a Grade I amateur operator's certificate.

Frequencies	Classes of emission
1875 to 1900 kHz	CW and AM
3.5 to 3.9 MHz	CW and AM
3.5 to 3.55 MHz	FSK
3.7 to 3.8 MHz	NFM
7.0 to 7.1 MHz (see note 5)	CW
7.0 to 7.05 MHz	FSK
7.05 to 7.1 MHz	AM
14.0 to 14.35 MHz (see note 5)	CW
14.0 to 14.1 MHz	FSK
14.1 to 14.35 MHz	AM
21.0 to 21.45 MHz (see note 5)	CW
21.0 to 21.1 MHz	FSK
21.1 to 21.45 MHz	AM
26.96 to 27.23 MHz	CW FSK and AM
27.12 MHz (see note 4)	Telecontrol
28.0 to 29.7 MHz (see note 5)	CW and AM
28.0 to 28.1 MHz	FSK
29.0 to 29.7 MHz	NFM
51 to 53 MHz (see note 1)	CW MCW AFSK and AM
51 to 52 MHz	NFM
52 to 53 MHz	FM and Telecontrol
144 to 148 MHz (see note 5)	CW MCW AFSK FM and AM
420 to 449 MHz (see notes 2 and 5)	CW MCW AFSK FM and AM
421 to 449 MHz	Television
421 to 449.75 MHz	Telecontrol
1215 to 1300 MHz (see note 3)	CW MCW AFSK FM AM and Pulse
1250 to 1280 MHz	Television
2300 to 2450 MHz (see notes 3 and 4)	CW MCW AFSK FM AM and Pulse
3.3 to 3.5 GHz (see notes 3 and 6)	
5.65 to 5.85 GHz (see notes 3, 4 and 7)	
10.0 to 10.5 GHz (see notes 3 and 8)	
24.0 to 24.05 GHz (see note 5)	
24.05 to 24.25 GHz (see note 3)	

NOTES

1. This band is shared with Defence services; amateur usage is on a non-interference basis to Defence stations.
2. This band is shared with aeronautical radio-navigation (radio altimeters) and radiolocation. Amateur usage is on a non-interference basis to these services.
3. This band is shared with the radiolocation service; amateur usage is on a non-interference basis to this service.
4. The frequencies 27.12 MHz, 2450 MHz and 5.8 GHz are designated for industrial, scientific and medical purposes with emissions confined within the limits of ± 163 kHz, ± 50 MHz and ± 75 MHz respectively of these frequencies. Amateur stations

operating within these limits must accept any harmful interference that may be experienced from the operation of ISM equipment.

5. The bands 7.0-7.1 MHz, 14.0-14.25 MHz, 21.0-21.45 MHz, 28.0-29.7 MHz, 144-146 MHz, 435-438 MHz and 24.0-24.05 GHz may also be used for amateur satellite communications.
6. The band 3.4-3.5 GHz is shared with fixed satellite and radiolocation services; amateur usage is on a non-interference basis to this service.
7. The band 5.67-5.725 GHz is shared with the space research (deep space) service on an equal basis.
8. The band 10.0-10.025 GHz is shared with the weather radar service on meteorological satellites. Amateur usage is on a non-interference basis to this service.

GENERAL

NFM—narrow-band frequency modulation; the bandwidth of which should not exceed 6 kHz.

AM—amplitude modulation telephony, including SSB systems. Slow scan TV may be used wherever AM is authorised.

FM—frequency and phase modulation telephony.

FSK—frequency shift keying, with a frequency shift of up to 850 Hz and a maximum bandwidth of 1.1 kHz.

AFSK—audio frequency shift keying.

For transmissions employing FSK or AFSK, the station's call sign must be sent in international morse code at hand speed at least once every 15 minutes during the course of each transmission.

GRADE 2

For use by amateurs licensed to operate under a Grade II amateur operator's certificate.

Frequencies	Classes of emission
1875 to 1900 kHz	CW and AM
3.5 to 3.9 MHz	CW and AM
3.5 to 3.55 MHz	FSK
3.7 to 3.8 MHz	NFM
51 to 53 MHz (see note 1)	CW MCW AFSK and AM
51 to 52 MHz	NFM
52 to 53 MHz	FM and Telecontrol
144 to 148 MHz (see note 5)	CW MCW AFSK FM and AM
420 to 449 MHz (see notes 2 and 5)	CW MCW AFSK FM and AM
421 to 449 MHz	Television
421 to 449.75 MHz	Telecontrol
1215 to 1300 MHz (see note 3)	CW MCW AFSK FM AM and Pulse
1250 to 1280 MHz	Television
2300 to 2450 MHz (see notes 3 and 4)	CW MCW AFSK FM AM and Pulse
3.3 to 3.5 GHz (see notes 3 and 6)	
5.65 to 5.85 GHz (see notes 3, 4 and 7)	
10.0 to 10.5 GHz (see notes 3 and 8)	
24.0 to 24.05 GHz (see note 5)	
24.05 to 24.25 GHz (see note 3)	

NOTES

1. This band is shared with Defence services; amateur usage is on a non-interference basis to Defence stations.
2. This band is shared with aeronautical radio-navigation (radio altimeters) and radiolocation. Amateur usage is on a non-interference basis to these services.
3. This band is shared with the radiolocation service; amateur usage is on a non-interference basis to this service.
4. The frequencies 2450 MHz and 5.8 GHz are designated for industrial, scientific and medical purposes with emissions confined within the limits of ± 50 MHz and ± 75 MHz respectively of these frequencies. Amateur stations operating within these limits must accept any harmful interference that may be experienced from the operation of ISM equipment.

GENERAL

NFM—narrow-band frequency modulation; the bandwidth of which should not exceed 6 kHz.

AM—amplitude modulation telephony, including SSB systems. Slow scan TV may be used wherever AM is authorised.

FM—frequency and phase modulation telephony.

FSK—frequency shift keying, with a frequency shift of up to 850 Hz and a maximum bandwidth of 1.1 kHz.

AFSK—audio frequency shift keying.

For transmissions employing FSK or AFSK, the station's callsign must be sent in international morse code at hand speed at least once every 15 minutes during the course of each transmission.

GRADE 3

For use by amateurs licensed to operate under a Grade III amateur operator's certificate.

Frequencies	Classes of emission (See note 1)
144 to 148 MHz (see note 5)	AM and FM
420 to 449 MHz (see notes 2 and 5)	AM and FM
421 to 449 MHz	Television
421 to 449.75 MHz	Telecontrol
1215 to 1300 MHz (see note 3)	AM FM and Pulse
1250 to 1280 MHz	Television
2300 to 2450 MHz (see notes 3 and 4)	AM FM and Pulse
3.3 to 3.5 GHz (see notes 3 and 6)	
5.65 to 5.85 GHz (see notes 3, 4 and 7)	
10.0 to 10.5 GHz (see notes 3 and 8)	
24.0 to 24.05 GHz (see note 5)	
24.05 to 24.25 GHz (see note 3)	

NOTES

1. Amplitude modulation (AM) includes SSB systems; frequency modulation includes phase modulation. CW/MCW types of transmission are not permitted.
2. This band is shared with aeronautical radio-navigation (radio altimeters) and radiolocation. Amateur usage is on a non-interference basis to these services.
3. This band is shared with the radiolocation service; amateur usage is on a non-interference basis to this service.
4. The frequencies 2450 MHz and 5.8 GHz are designated for industrial, scientific and medical purposes with emissions confined within the limits of ± 50 MHz and ± 75 MHz respectively of these frequencies. Amateur stations operating within these limits must accept any harmful interference that may be experienced from the operation of ISM equipment.
5. The band 144-146 MHz may also be used for amateur satellite communications.
6. The band 3.4-3.5 GHz is shared with fixed satellite and radiolocation services; amateur usage is on a non-interference basis to this service.
7. The band 5.67-5.725 GHz is shared with the space research (deep space) service on an equal basis.
8. The band 10.0-10.025 GHz is shared with the weather radar service on meteorological satellites. Amateur usage is on a non-interference basis to this service.



CLASSES OF EMISSION

Different types or radio emissions are normally designated by letters and numerals.

The first letter indicates the type of modulation:

A: Amplitude.

F: Frequency or phase.

P: Pulse.

This letter is followed by a numeral showing the type of transmission. The important ones are:

0: No modulation (carrier only).

1: Keyed carrier (C.W. or telegraphy).

2: Keyed AF modulated (MCW).

3: Sound modulated (AM or telephony).

4: Facsimile.

5: TV (vision only).

A second letter is used to indicate any supplementary characteristic:

A: Single side band (SSB) with reduced carrier.

B: Two independent side bands (ISB).

C: Vestigial side band (carrier plus upper side band).

D: Pulse amplitude modulated.

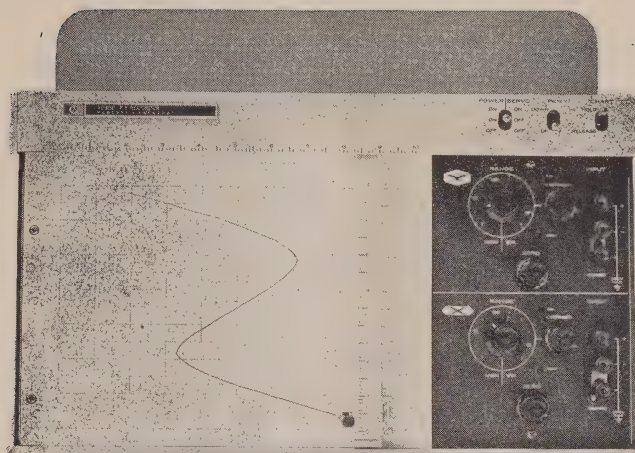
E: Pulse width (or duration) modulated.

F: Pulse phase (or position) modulated.

G: Pulse code modulated.

H: Single side band with full carrier.

J: Single side band with suppressed carrier.



Rakon Crystals

Frequency Versus Temperature

Modern radio communication systems utilizing SSB techniques and narrow channel spacing rely on precise frequency control.

Exacting specifications are placed on quartz crystals for this type of equipment, one of the most important being frequency stability over operating temperature ranges.

To meet today's demands Rakon uses temperature testing instruments which provide automatic control and monitoring of crystal frequency/temperature

characteristics. Result: an accurate record of crystal behaviour over temperature ranges between -55°C to $+105^{\circ}\text{C}$, can be supplied with each unit.

Continuing research, and the latest techniques in crystal engineering, enables Rakon to offer units with stabilities of $\pm 5\text{ppm}$ from -10°C to $+60^{\circ}\text{C}$.

For further information and prices on Special Application crystals write to:



RAKON INDUSTRIES LTD.

9 George Street, Mt. Eden, Auckland. Telephone 605-010. Cables: RAKON:

EXAMINATION SYLLABUS

for the AMATEUR OPERATOR'S CERTIFICATE

Information supplied by the N.Z. Post Office

General

1. The examination for an Amateur Operator's Certificate is set within the provisions of the Post Office Act and Radio Regulations made thereunder. It does not replace any examination provided for under the Electricians Act 1952.

2. Except as provided for in Regulation 73, an Amateur Operators Certificate may be issued only to a natural-born or naturalised British subject, who is not less than 14 years of age.

3. There are 3 grades of Amateur Operators Certificate which provide for the operation of amateur stations on authorised frequencies as follows:—

Grade I: all New Zealand amateur bands.

Grade II: 1875-1900 kHz, 3500-3900 kHz, 51-53 MHz, and amateur bands over 144 MHz.

Grade III: amateur bands above 144 MHz only.

Syllabus

4. To obtain an Amateur Operators Certificate of Grade III, a candidate is required to pass an examination comprising—

Section A: A written examination in the elementary principles of electricity, radiotelegraphy, and the adjustment and operation of radio apparatus used in a typical amateur station (also see paragraph 13); and

Section B: A written examination in such of the radio regulations as are applicable to the amateur service.

5. To obtain an Amateur Operators Certificate of Grade II, a candidate is required to pass an examination comprising:

Sections A and B (see paragraph 5); and

Section C: A morse operating test, both sending and receiving, each for a period of three minutes, at a speed of twelve words a minute, five letters comprising a word. The receiving test is to be written.

6. To obtain an Amateur Operators Certificate of Grade I, a candidate is required to have operated in the 3500-3900 kHz band under a Certificate of Grade II for at least a year and to have had not less than 50 contacts in this band. In addition the candidate is required to show by a further morse operating test (as outlined in Section C of paragraph 5 above) that he is still capable of sending and receiving 12 wpm. On satisfying these requirements a certificate of Grade I will be issued.

7. If the holder of a Certificate of Grade III subsequently passes a morse operating test at 12 words a minute he will be issued with a Certificate of Grade II.

Partial Pass

8. Credit will not be given for a pass in individual sections except that where a candidate in the examination for a Certificate of Grade II passes Sections A and B but fails in the morse operating test, a partial pass will be granted. This will remain valid indefinitely.

Date of Examination

9. The examination is conducted on the first Wednesday, in March and September. The morse operating test is held in the morning and Sections A and B between the hours of 1.30 p.m. and 4.30 p.m. Morse operating tests to complete partial-passes or to qualify for a Certificate of Grade I are held on the first Wednesday of each month. The written sections cannot be taken separately.

Applications

10. Intending candidates should make application at the nearest Post Office Engineer's Office on form Tel. 196 which should show whether the examination is for a Certificate of Grade I, Grade II or Grade III. The candidate's birth certificate should accompany the application which must reach the Engineer's Office not later than the 15th of the month preceding that in which the examination is held.

Fees

11. For a Certificate of Grade II, or Grade III: \$2.00. For a morse test only i.e., to complete a partial pass, Grade II or to qualify for a Grade I Certificate: \$1.00.

Specimen Papers

12. Copies of specimen examination question papers may be obtained from Post Office Engineers' Offices at a cost of 10c per set.

Detailed Syllabus of Technical Paper

13. The following detailed syllabus covers the scope of the technical written paper (Section A) referred to in paragraph 4:—

Elementary Electricity and Magnetism—

Elementary theory of electricity; conductors and insulators; electrical unit; Ohm's Law; resistors in series and parallel. Power. Permanent magnets and electro magnets and their use in radio work. Batteries. Self and mutual inductance; types of inductors used in transmitting and receiving circuits. Capacitance, construction of various types of capacitors; their arrangement in series and parallel. Simple calculations.

Elementary Alternating Current Theory—

Alternating currents and voltages. Alternating current theory incorporating circuits with inductance, capacitance and resistance. Impedance. Resonance. Coupled circuits. Acceptor and rejector circuits. The transformer; impedance ratio and turns ratio, eddy currents.

Thermionic valves and Semi-conductors—

Characteristics and essential construction of transistors, semi-conductor diodes, thermionic diodes, triodes, multi-electrode valves. Use of semi-conductor devices and valves as oscillators, amplifiers, detectors and frequency changers. Distortion; harmonics; push-pull operation. Power rectification; stabilisation and smoothing; typical power supplies for low power transmitters and receivers.

Radio Receivers

General principles of operation of TRF and super-heterodyne receivers including double conversion systems on MF, HF and VHF. Detectors, mixers, local oscillators, filters. B.F.O., A.G.C., negative feedback, selectivity, sensitivity. Reception of AM, FM, SSB, CW transmissions.

Propagation

Natural and propagation of radio waves on MF, HF and VHF. Ionospheric and tropospheric conditions and their effect on propagation.

Aerials

Common types of receiving and transmitting aerials. Transmission lines. Directional systems. Aerial couplings to lines and transmitters. Matching. Dummy load. Standing waves.

Transmitters

Oscillator circuits, crystal and VFO. Buffers, multipliers, power amplifiers. Tuning methods, neutralisation. Modulation, AM, FM. SSB generation, filter and phasing methods. Keying methods and key click reduction. Microphones. Transmissions at medium, high and very high frequencies.

Interference

Frequency stability, avoidance of harmonic radiation and of interference by shock excitation. Means of preventing spurious emissions. Dangers of over-modulation. Devices for reducing interference with nearby radio and television receivers.

Measurements

Measuring instruments. Measurement of frequency. Measurement of current and voltage including audio and radio frequencies. Measurement of power input to the final stage(s) of a transmitter. Consideration of

peak envelope power. Use of the cathode ray oscilloscope for the examination of waveforms. Measurement of standing waves. Measurement of resistance, including bridge methods.

Safety—

Safety precautions and resuscitation practices.

Text Books

14. The following selection of suitable text books is suggested for study purposes:—

Radio Communications Handbook.

Radio Society of Gt. Britain.

The Radio Amateur's Handbook.

American Radio Relay League.

Foundations of Wireless.

8th Edition.

M. G. Scroggie, published by Iliffe & Sons Ltd.

Basic Electronics.

Parts 1 - 6.

Technical Press Ltd.

Radio & Line Transmission.

Parts 1 & 2.

Danielson & Walker, published by Iliffe & Sons Ltd.

Direct Current & Magnetism.

Philips, published by Iliffe & Sons Ltd. Philips Technical Library.

Alternating Current & Acoustics.

Philips, published by Iliffe & Sons Ltd. Philips Technical Library.

Radio Valves.

Philips, published by Iliffe & Sons Ltd. Philips Technical Library.

Diodes & Transistors.

(General Principles).

Fontaine — published by Philips, Philips Technical Library.

Measuring Methods & Devices in Electronics.

Beerens, published by Philips, Philips Technical Library.

REPEATER RULES

1. The Trustees (as listed on the Post Office Licence) to have final responsibility for the repeater operation.
2. The repeater to be owned and maintained by the Branch.
3. The repeater to be open for use by all licensed amateurs.
4. A.R.E.C. and Civil Defence requirements in areas to have priority use over normal amateur repeater traffic.
5. "Overs" to be kept short.
6. Breaks between "overs" to be frequent to let other users identify and call in.
7. Stations who can work together direct without using the repeater establish contact only and then change to some other channel.
8. Home station-to-home station contacts are discouraged.
9. The Radio Regulations to apply at all times, notwithstanding anything in these rules.
10. With exception of mobiles, stations should not call a general C.Q.
11. Stations using the repeater to identify when calling.
12. No one to be excluded from legitimate operation.
13. QSLs should be clearly marked "via repeater".
14. Contacts via the repeater will not be recognised for any contest or award.
15. A copy of these rules and the names of the Trustees to be posted on the Branch noticeboard.
Special conditions: Some repeaters will have some special operation notes, and these will be in a Footnote, under the repeater entry in the Annual Call Book.

A.R.E.C. PROCEDURE

In most AREC search operations outside stations are quite often called upon to assist with relay work and these stations find difficulty in following AREC operating procedure. The following is the basic procedure for Telephony. CW procedure is covered in the AREC Manual.

1. *Establishing contact:* "ZL2EXA ZL2EXA ZL2EXA. This is ZL2EX. How do you copy? Over."
2. *ZL2EXA acknowledges as follows:* "ZL2EX this is ZL2EXA Roger, your signals, Readability 5, Strength 8, go ahead. Over."
3. *ZL2EX replies:* "Roger, I have message for you. Message begins. ZL2EX 1, 121320. Addressed Andrews. Text begins. Weather here fine. Signature Gorman. End of message. Over."
4. *ZL2EXA replies:* "Roger No. 1. I have no traffic for you. Over."
5. *ZL2EX replies:* "Roger. No further traffic here. ZL2EXA, this is ZL2EX out."
6. *ZL2EXA replies:* "Roger. ZL2EX, this is ZL2EXA, out."

Note 1: The use of the signing procedures "over" and "out". When you sign "out" it is very desirable to check the channel before you call your next station. Signing out means you have finished your contact—final finals should be avoided.

Note 2: You will see call-signs have been omitted except for calling and signing. Call-signs should, however, be used (a) when other stations are in the operating net, (b) when conditions are poor and there could be some doubt. In these cases the operating station simply signs over as follows: "ZL2EX this is ZL2EXA Over."

The use of correct operating procedures, whilst it may appear irksome and over-efficient to some, does save considerable time if every operator is aware of what to expect. We should aim at efficiency; efficiency saves time, and seconds are very valuable when a channel is busy. No one objects to the odd wisecrack or personal remark; these all help to relieve the tension, but these remarks must be kept to times when channels are not busy. If a channel is busy, be brief and clear messages quickly and efficiently. Should an operator have an urgent message to clear, he should break in on the channel and say so—but he should use his discretion with the degree of urgency of his message—bearing in mind that out-station traffic must, for obvious reasons, have priority in the use of the channel.

Note 3: The procedure phrase "Break" is never to be used as a directive to another station to transmit. The correct signal for this purpose is the word "over".

Phonetic Code: The following is the standard AREC phonetic code, as agreed to by the recent AREC meeting at Napier.

A—ALFA	J—JULIET	S—SIERRA
B—BRAVO	K—KILO	T—TANGO
C—CHARLIE	L—LIMA	U—UNIFORM
D—DELTA	M—MIKE	V—VICTOR
E—ECHO	N—NOVEMBER	W—WHISKEY
F—FOXTROT	O—OSCAR	X—X-RAY
G—GOLF	P—PAPA	Y—YANKEE
H—HOTEL	Q—QUEBEC	Z—ZULU
I—INDIA	R—ROMEO	

IMPORTANT NOTE: Phonetic codes are to be *used* not *abused*. Code words should be used only when necessary and not when signals can be read with ease.

**ALL A.R.E.C.
COMMUNICATIONS
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ON UPPER SIDE-BAND
(U.S.B.)**

**to conform with
international commercial
practice**

**QSL
CARDS**

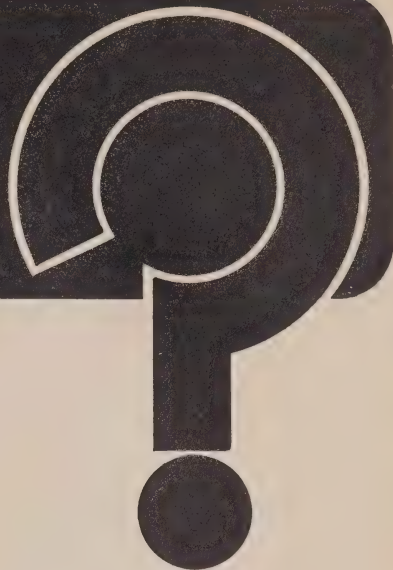
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PLEASE SEND FOR PRICE LIST.

What's in line for HF RF



2N5039

Silicon NPN Epitaxial High Speed Switch for HF RF applications in AM and SSB equipment:

Ic 20A; VCBO 120V;
PT 140W.



2N3878

Silicon NPN Epitaxial High Speed Switch for HF RF applications:

Ic 7.0 A; VCBO 120V;
PT 35W.



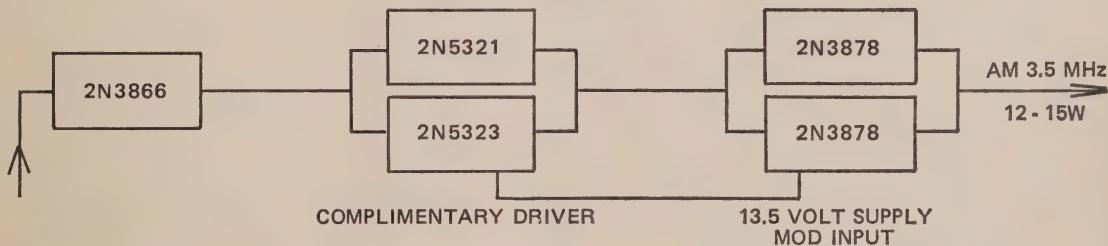
2N5992

Silicon NPN Overlay Emitter Ballasted for 12.5 volt supply:

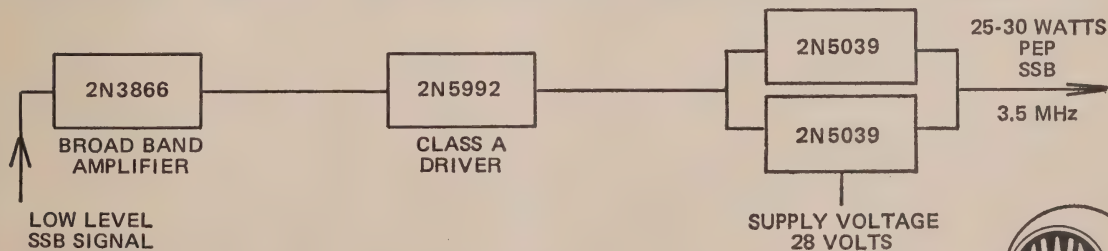
Ic 5A cont; VCBO 65V;
PT 35.7W; 7.0W output at
88MHz (10dB Gain).

Available ex-stock from
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SUGGESTED LINE-UP FOR 3.5 MHz 12-15 WATTS CARRIER POWER AM TRANSMITTER



SUGGESTED LINE-UP FOR 3.5 MHz 25-30 WATTS PEP SSB TRANSMITTER



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EMERGENCY PROCEDURES

EMERGENCY AND DISTRESS CALLING

Where it is required to attract attention in cases of emergency or distress, there are certain phone and CW calls that are internationally recognised. These should be employed *only* where absolutely necessary for safety of life or property.

DISTRESS: On CW send "SOS" (send this as a single signal); on phone say "Mayday". These signals indicate that the sender is in grave and imminent danger and requests immediate assistance. The distress call has *absolute priority* over all other transmissions.

URGENCY: On CW send "XXX XXX XXX"—send each letter distinctly. On phone say "PAN" (pronounced "pahn") three times. These signals indicate that the calling station has a very urgent message to transmit concerning the safety of a ship, aircraft, vehicle, or of some person on board or in sight. The urgency signal has priority over all other communications except distress.

QRRR: This signal is recognised in amateur operation as being a land distress signal or urgency signal and may be transmitted on phone or CW.

It is allowable in cases of *extreme emergency* to use *any* frequency or mode of transmission whatever, if the operator considers that he may thus obtain assistance more quickly—but this action should only be taken when normal methods are inadequate.

Once the initial contact has been made, transmissions should be made only on 3.9 Mc/s or 3.5 Mc/s.

When using distress or urgency signals always announce call-sign and location and if no contact is made, keep calling with the important parts of the information—you may be heard by some station which is unable to reply.

A.R.E.C.

EMERGENCY FREQUENCIES

AREC is permitted to operate on the following frequencies which are reserved for AREC use in emergencies:—

1875 — 1900 kHz

3500

3900

7100

The general calling frequency for stations requiring assistance in emergency is 3900 kHz and this frequency is monitored by AREC personnel during such mishaps as severe storms, power failures, earthquakes, etc.

AREC CALL SIGNS

ZL1EA	Auckland
ZL1EB	North Shore
ZL1EC	Hamilton
ZL1ED	Te Awamutu
ZL1EE	Taumarunui
ZL1EF	Waihi
ZL1EG	Northland
ZL1EH	Waikato East
ZL1EI	Thames
ZL1EJ	Tauranga
ZL1EK	Western Suburbs
ZL1EL	Cambridge
ZL1EM	Whakatane
ZL1EN	Franklin
ZL1EO	Kawerau
ZL1EP	Waitomo
ZL1EQ	Rotorua
ZL1ER	Tokoroa
ZL1ES	Papakura
ZL1ET	Taupo
ZL1EU	Manukau
ZL1EV	Te Puke
ZL1EW	Rodney
ZL1EX	Area Communications Officer, Auckland Area G. E. Poulton, ZL1MP
ZL2EA	Gisborne
ZL2EB	New Plymouth
ZL2EC	Central Hawke's Bay
ZL2ED	Wanganui
ZL2EE	Hastings
ZL2EF	Kapiti
ZL2EG	Northern Hawke's Bay-Wairoa
ZL2EH	Dannevirke
ZL2EI	Manawatu
ZL2EJ	Wairarapa
ZL2EK	Rahotu
ZL2EL	Upper Hutt
ZL2EM	Wellington
ZL2EN	Nelson
ZL2EO	Marlborough
ZL2EP	Inglewood
ZL2EQ	Napier
ZL2ER	Waimarino
ZL2ES	Horowhenua
ZL2ET	Titahi Bay

ZL2EU	Pahiatua
ZL2EV	Patea
ZL2EW	Marton
ZL2EY	Hutt Valley
ZL2EZ	Tawa
ZL2EX	Communications Manager and Area Officer, Wellington District
ZL2EXA	Reputy Communications Manager F. R. W. Andrews, ZL2IJ
ZL2EXB	Deputy Communications Manager (2)
ZL2EXC	Secretary Communications Committee
ZL3EA	Christchurch
ZL3EB	Westland
ZL3EC	South Canterbury
ZL3ED	Ashburton
ZL3EE	South Westland
ZL3EF	Reefton
ZL3EX	Area Officer, Christchurch District D. J. Mackay, ZL3RW
ZL4EA	Otago
ZL4EB	Gore
ZL4EC	Invercargill
ZL4ED	Balclutha
ZL4EE	Cromwell
ZL4EF	Oamaru
ZL4EX	Area Officer, Dunedin District R. W. G. Kingston, ZL4MK

The call-signs given above are the basic section call-signs. In an AREC Section operation or practice base call-sign is to be a three letter call-sign ending in A.

In sections it is customary for all members to be allocated an emergency three letter call-sign, e.g., ZL2EAP. It is advisable to commence issuing calls after letter H so that calls allocated would not clash with those allocated in any search plan. These are used for practice purposes within the section. These call-signs should also be used when acting as a relay station in an AREC emergency net.

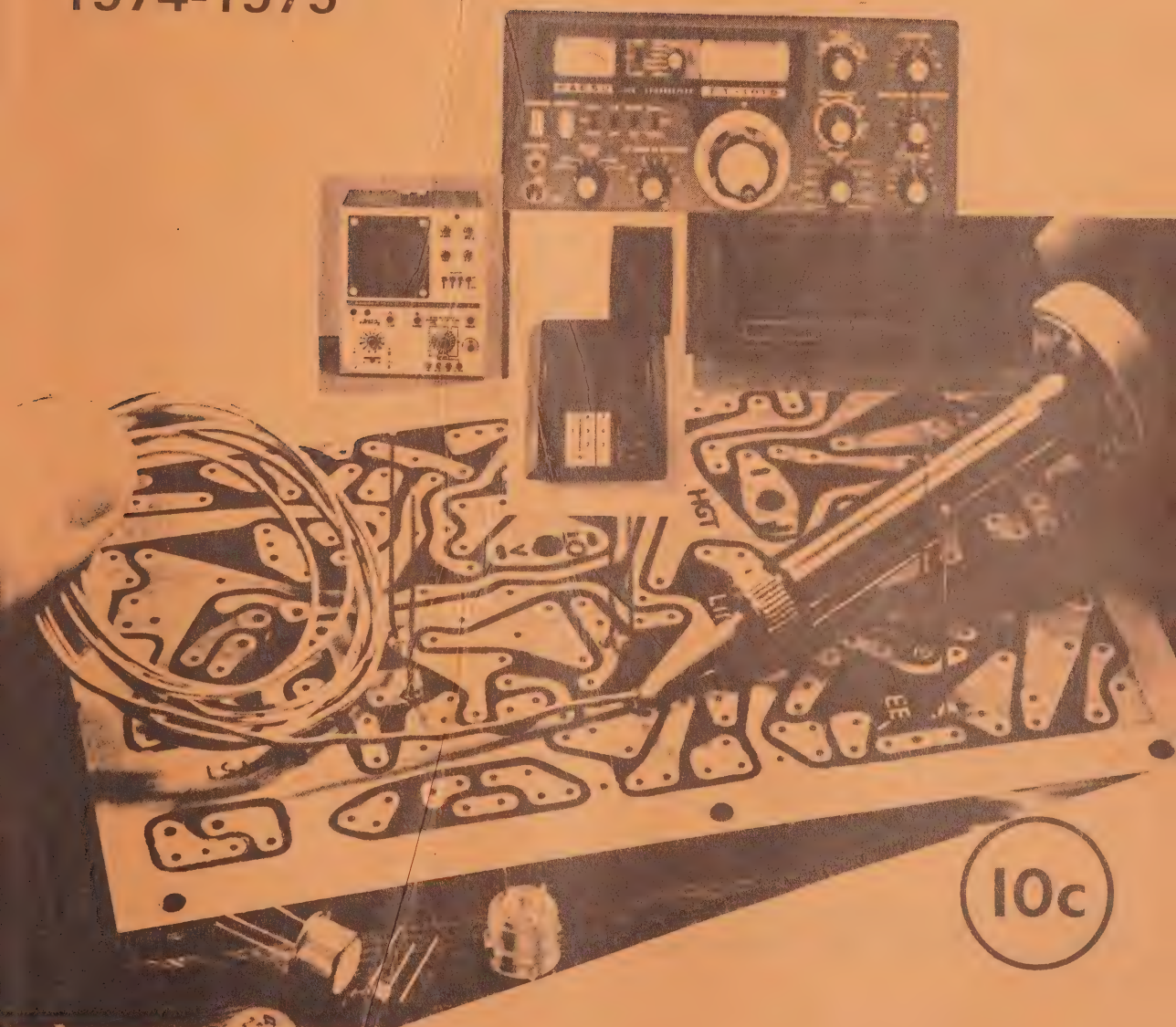
Tricity House

LIMITED

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P.O. Box 1410, Christchurch Phone 67-443

Radio Guide

30th EDITION
1974-1975



10c

HOW TO ORDER BY MAIL

When you order Radio and Television needs please help us to help you by noting the following:—

1. Give your name and address clearly.
2. List your needs with any explanatory notes which may be required.
3. Send cash or postal notes, money order, cheque, or money order telegram.

Please register your letter if you send cash.

If you send too much money, the change will be returned to you.

CHEQUES

Some of our customers send us blank cheques and leave us to fill in the exact amount. In such cases, if the amount is, say, approximately \$5.50, write across the top of the cheque: "Not over \$6.00". A large number of our customers find this a most satisfactory method.

GUARANTEE

So far, our Mail Order Department has handled somewhere about 315,000 mail orders over the years. In every case, we make it plain that IF YOU ARE NOT COMPLETELY SATISFIED YOUR MONEY WILL BE RETURNED IN FULL. We don't bother about all sorts of legal phrases in our Guarantee. We simply say that, if you're not satisfied, we'd rather RETURN YOUR MONEY IN FULL than lose your goodwill.

POST YOUR ORDER RIGHT AWAY. NO ORDER TOO LARGE—NO ORDER TOO SMALL.

OUT OF NEW ZEALAND BUYERS

Tricity House has built up a list of regular customers in the Cook Islands, Fiji, Samoa, New Caledonia, Australia and other places. THE FAMOUS TRICITY HOUSE GUARANTEE IS EXTENDED TO OUR OVERSEAS CUSTOMERS!

OPEN YOUR CREDIT ACCOUNT RIGHT AWAY

Many of our regular customers leave sums of up to \$20 to their credit so that they can order what they want when they want it. When orders arrive, the amount is deducted from the credit balance. When the credit balance is nearly exhausted, our credit account customers simply send another remittance to keep themselves in credit. This is a handy system for those who live a long way from a bank or post office. It makes buying so simple. We post you a statement of your account every month.

USE THIS EASY WAY TO BUY

WE CARRY NEW ZEALAND'S LARGEST RANGE OF VALVES AND TRANSISTORS—ASK US FOR THOSE "HARD TO GET" ONES.

Today, business has its worries. What with import controls, shipping and other difficulties, we are not always able to supply as complete a range as we desire. Sometimes, too, such circumstances have an effect on prices. Nevertheless, we endeavour to keep our stocks as complete as possible and our prices at good-value level. Should any prices in this catalogue be varied when you order, you will be immediately advised.

COMPONENTS SECTION

ANCHOR BOARDS:

Single Row: 2, 3, 4, 5, 6, 7, 8, lug per lug 2c
Resistor Boards: 4 lug 25c; 7 lug 32c; 10 lug 41c; 14 lug 59c.
Special Resistor Boards: $4\frac{3}{4}$ " x $1\frac{1}{2}$ " 8 pair @ 10c
 $11\frac{1}{2}$ " x $13\frac{8}{8}$ " 20 pair @ 20c

We stock many other combinations of anchor and resistor boards.

ADAPTORS, AUDIO:

Phono Plug to Phone Plug
Phono Plug to MC1F
Phone Plug to MC1F
Miniature Phone Plug to Phone Plug
Phone Plug to Phono Plug
Phono Plug to Miniature Phone Plug.....all 75c

ALLIGATOR CLIPS:

All metal.....12c
Miniature All Metal.....12c
Mini-gator, insulated, assorted colours.....10c
Insulated with soft slide on insulation.....15c
Insulated Medium Size.....15c

BATTERIES: Eveready and Philips. Flashlight and Lantern:

509 6 volt Lantern Battery.....\$1.16
701 - 3 volt Cycle Lamp Battery.....43c
C703 - $4\frac{1}{2}$ volt Flat Battery.....30c
915 1 $\frac{1}{2}$ volt Round Unit Cell.....12c
935 1 $\frac{1}{2}$ volt Round Unit Cell.....13c
950 - 1 $\frac{1}{2}$ volt Round Unit Cell.....14c
* 1015 - 1 $\frac{1}{2}$ volt Heavy Duty Cell.....15c
* 1035 - 1 $\frac{1}{2}$ volt Heavy Duty Cell.....17c
* 1050 - 1 $\frac{1}{2}$ volt Heavy Duty Cell.....19c
1215 - 1 $\frac{1}{2}$ volt Extra Heavy Duty Cell.....19c
1235 1 $\frac{1}{2}$ volt Extra Heavy Duty Cell.....22c
1250 1 $\frac{1}{2}$ volt Extra Heavy Duty Cell.....24c
731 6 volt Lantern Battery.....\$2.78
UM5 - 1 $\frac{1}{2}$ volt Sub-miniature Instrument Cell.....20c

Radio Batteries:

* 216 9 volt Energiser.....52c
276P 9 volt Energiser.....\$1.37
467 6 $\frac{1}{2}$ volt Mini Max B Battery.....\$1.70
482 45 volt Mini-Max B Battery.....\$3.13
739 9 volt Portable A Battery.....\$1.75
744 6 volt Energiser.....\$1.39
714 4 $\frac{1}{2}$ volt Heavy Duty Bias Battery.....\$1.21
765 9 volt Portable A Battery.....\$1.75
2504 6 volt Energiser.....\$1.24
X71 - 1 $\frac{1}{2}$ volt Rectangular Dry Cell.....60c
2362 9 volt Energiser.....98c
2364 9 volt Energiser.....\$1.76
412 - 22 $\frac{1}{2}$ volt Instrument Cell.....97c
266 9 volt Energiser.....\$1.36
6 1 $\frac{1}{2}$ volt Round Dry Cell.....\$1.13

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OUR LARGE TURNOVER ENSURES, OUR BATTERIES ARE ALWAYS FRESH.

BATTERY CHARGERS:

S.T.C. Dual 6 volt and 12 volt Charger.
Maximum 6 amp charging output with meter.....\$26.20
RECQ, Dual 6 and 12 volt, 5 amp Charger.....\$19.95

BATTERY CARRIERS:

These carriers are ideal both for the home constructor and fit most replacement radio carriers:

915 size (penlite) 2's @ 40c; 4's square @ 50c 4's (2x2) @ 50c
6's (3x3) @ 63c.
935 size (M/S torch cell) 2's @ 49c; 4's (2x2) @ 58c; 6's (2x3 in line) @ 76c.
950 size (L/S torch cell) single @ 45c; 2's @ 54c; 4's (2x2) 85c; 6's (2x3 in line) @ 99c.
Plastic Tubes: 4x935 @ 22c; 4x950 @ 25c

AERIALS. - RADIO:

20ft Whip, chimney mount.....\$8.95
20ft Barge mount.....\$10.42
Aerial wire, copper 100ft coils.....\$1.35
Insulators.....24c
Telescopic, general purpose replacement for transistor radios, S/S \$1.55, L/S \$1.90

AERIALS. - CAR:



Cowl Mount 3 section @ \$7.75 4 section @ \$8.95
Cowl, completely retractable
Side Mount 9ft @ \$9.48 12ft @ \$13.60
Gutter Grip, telescopic \$5.80
Spare car aerial leads
Cowl - 4ft 6in @ \$2.10 6ft @ \$2.25; 12ft @ \$2.69
Side fittings 4ft 6" @ \$1.43 6ft @ \$1.73 12ft @ \$2.18

AERIALS. - TV

300 ohm twin ribbon



9c yd



We stock all outdoor T.V. aerials

CHANNELS 1, 2, 3, 4, 5, 6, 7, 8.

CHANNEL 3; Dipole @ \$6.38 2 element @ \$9.41

3 element @ \$12.01

CHANNEL 6; 5 element \$9.60

CHANNEL 7; 5 element \$9.60

Other prices on request

We carry ex stock, T.V. Aerial Accessories, namely masts, mast straps, standoffs. Prices on request.

Rabbits Ears, with ball adjustment and telescopic, to suit all channels \$5.80

AERIALS - Caravan, Boat All Channel.....\$12.71

BEZELS - Low Voltage

Sato, miniature type, panel mount, red, blue, green, clear, yellow complete with lamp (round or square glass).....55c

Spare bulbs.....6 volt @ 20c 12 volt @ 30c

Sato, large round 5/8" glass (less lamp)

Red, blue, green, clear, yellow.....45c

With square glass (less lamp).....56c ea

Spare bulbs.....6 volt @ 20c, 12 volt @ 30c

BEZELS - Neon

230 volt, Red, Yellow, Clear. Assorted shapes.....65c

CHASSIS,

Aluminium

4 $\frac{1}{2}$ x 3 x 1.....\$1.00

6 x 4 x 2.....\$1.70

7 x 5 x 2.....\$2.10

7 x 3 x 2.....\$1.84

8 x 4 x 2.....\$2.10

8 x 6 x 2.....\$2.26

11 x 8 x 3.....\$2.94

12 x 8 x 2.....\$2.94

10 $\frac{1}{2}$ x 5 x 2.....\$2.58

15 x 9 x 2.....\$2.49

Mini-Boxes

2 x 3 x 4.....\$1.14

3 x 4 x 5.....\$1.37

4 x 5 x 6.....\$1.59

Amplifier cases also available.

INSTRUMENT CASES

— now available in two tone light brown — ideal for the small project.

6" x 2" x 4".....\$2.00

8" x 2 $\frac{1}{2}$ " x 4".....\$2.75

9" x 3 $\frac{1}{2}$ " x 4".....\$3.50

14" x 4" x 10 with vinyl finish.....\$15.29

COIL FORMERS:

V.H.F. Coil Formers and Cans complete with all Hardware.... 23c

Former and F29 slug only..... 13c

Q.V.H.F. Coil Formers, Cans and fittings.

1 $\frac{1}{2}$ " high..... 42c

$\frac{1}{4}$ " Poly Coil Formers with slug..... 18c

spare slugs, standard of V.H.F. type..... 8c

5/16" Poly with slug..... 22c

3/8" Poly with feet and slug..... 26c

$\frac{1}{2}$ " Former with Retaining Clip and Slug..... 20c

COIL FORMERS and CANS:

Former size $\frac{1}{4}$ ", complete with can, mounting wafer and slug, all 7/8" square cans
Small size 1 3/8 inch overall height)..... 37c
Medium Size 1 7/8 inch overall height)..... 41c
Large Size 2 3/8 inch overall height)..... 50c

COIL FORMERS — PLUG IN:

4 pin, 5/8" diameter 1 3/8" high complete with socket..... 45c
8 pin - octal, 1 1/4" diameter, 2 3/8" high..... 48c
Socket for same..... 20c
CORD — DIAL..... 8c yard.

CRYSTAL SETS:

One Transistor Kitset, complete with instruction sheet..... \$5.80
Coils only..... 85c
Diodes 200 High Impedance Earpiece..... \$1.10
Variable Condenser..... 95c
Plastic Midget Condenser with Dial..... 75c
Fahnestock Clips..... 4c
High Impedance Headphones..... \$3.75

CRYSTALS:

We carry ex stock all common frequencies

Particular frequencies ground to order

FUNDAMENTAL

ALL GENERAL PURPOSE
type

80 — 99 KHz..... \$25.65
100 — 199 KHz..... \$15.65
200 — 999 KHz..... \$12.50
1000 — 1499 KHz..... \$15.75
1500 — 1999 KHz..... \$12.00
2000 — 14999 KHz..... \$9.00
15000 — 20000 KHz
\$10.15
OVERTONE
15-60 MHz..... \$10.00
60 — 75 MHz..... \$12.50
75 — 100 MHz..... \$14.95



CITIZEN BAND CRYSTALS, wire in type HC18 \$6.60 pr. (N.Z. Channels 1, 2, 3, 4, 5, 6, 7.) All crystals available in HC6U (HC6U with adaptor pins for FT 243, HC18/U, HC25/U Industrial tolerance available at additional cost. Delivery at special frequencies approx. 10 days.

CONDENSERS — Jackson Variable:

Variable, Panel Mount C804, 5pf a \$1.30, 10pf a \$1.30, 25pf a \$1.30, 50pf a \$1.40, 75pf a \$1.50, 100pf a \$1.60, 150pf a \$1.80.
5095 Double Bearing with Extended Shaft 25pf, 50pf, 75pf, 100pf a \$2.90
5096 Double Bearing 2 Gang 25pf, 50pf, 75pf, 100pf \$3.00
5096 Double Bearing 3 Gang 10pf, 25pf, 50pf, 100pf \$3.85
4280 3 x 22.5 pf Variable \$2.60.

C808 Split Stator 10+10pf \$2.15; 43+43pf \$2.35; 63+63pf \$2.35.

C719 Butterfly 4pf a \$1.50; 12pf a \$1.60; 17pf a \$1.95.

150pf 1500 volt Tank Condensers with extended shaft \$5.95

CONDENSERS — Generator Alternator:

for Generator..... 5uf a 55c
for Alternator..... 3uf a \$1.40
for Radio Telephone/Amateur use, Coaxial type..... 2uf a \$2.35

CONDENSERS

— Low Voltage Electrolytic type for transistor work

1uf 16 volt a 15c 2.2uf 16 volt a 15c; 4.7uf 16 volt a 15c;
10uf 16 volt a 15c; 22uf 16 volt a 15c; 22uf 25 volt a 20c;
50uf 16 volt a 15c; 50uf 25 volt a 23c; 50uf 35 volt a 23c;
50uf 50 volt a 25c; 100uf 16 volt a 15c 100uf 25 volt a 21c;
100uf 50 volt a 27c; 220uf 16-volt a 20c; 220uf 36 volt a 36c;
220uf 50 volt a 53c; 470uf 16 volt a 22c; 470uf 25 volt a 40c;
470uf 50 volt a 45c; 1000uf 16 volt a 33c; 1000uf 25 volt a 45c; 1000uf 50 volt a 65c.

CONDENSERS — Philips Pinup Ceramic 500 volt D.C.

Values stocked—2, 3, 4, 5, 10, 15, 22, 27, 33, 39, 47, 56, 68, 82, 100, 120, 150, 220, 270, 330, 390, 470, 560, 680, 820, 1000, 1200, 1500, 2200, 3300, 4700, 5600, 6800, 8200, 10,000 pfd. 10c.

CONDENSERS — Silver Mica 500 volt D.C.:

Values stocked — 1.2, 1.5, 1.8, 2.2, 3.3, 4.7, 5.6, 6.8, 8.2, 10, 15, 22, 27, 33, 39, 47, 56, 68, 82, 100, 120, 150, 220, 270, 330, 390, 470, 560, 680, 820, 10c; 1000, 1500, 20c; 2200, 2700, 3300, 3900 25c.

CONDENSERS — Disc Ceramic 750 volt D.C.:

Values stocked — .001, .002, .0047, 12c; .01 13c.

CONDENSERS — Disc Ceramic 3K volt D.C.:

Values stocked — 100, 150, 270, 330, 470pf, .001, .0047, .01 18c.

CONDENSERS — Electrolytic — Can type

2200uf 63 volt a \$2.10; 3300uf 25 volt a \$1.70; 5000uf 70 volt a \$2.80.

CONDENSERS — Polyester 400 volt D.C.:

Values stocked; .001, .0022, .0033, .0047, .01, .022, .033, 15c; .047, .1 20c; .22 a 22c; .33, .39 a 30c; .47 a 44c; 1uf a 57c; 2uf (250volt) a 65c.

CONDENSERS — Electrolytic 450 volt D.C., Pigtail:

1uf a 33c; 8uf a 33c; 10uf a 30c; 32uf a 52c; 47uf a 60c.

CONDENSERS — Electrolytic, Can type 1 3/8" diam.:

40/40/20uf 350 volt a \$1.20; 40/40/20uf 450 volt a \$1.80; 100uf 200 volt a \$1.18; 50/50uf 450 volt a 99c; 200/100/50/25uf 300 volt a \$2.40; 40/40/20 350 volt ($\frac{1}{2}$ " diam.) \$1.20.

A "MUST" for all Radio Operators, a Tricity House 'MINI-LOG'

30c

COAXIAL CABLE:

TP 446 Light Audio Cable..... 20c yd
ET6M (3-16" diam) 70ohm..... 20c yd
ET8M ($\frac{1}{2}$ " diam) 70ohm..... 20c yd
PT11 (3/8" diam) 70ohm..... 40c yd
UR76/PT107 (5/16" diam) 50 ohm..... 20c yd
UR67/PT5 (RG8U) ($\frac{1}{2}$ " diam) 50 ohm..... 70c yd
Note: The above are the nearest fractional sizes.

RIBBON FEEDLINES — TV Cable 300ohm

Black 8c yd; White 9c yd. LO-LOSS, Black only, 9c yd.

MULTI-CORE CABLE:

Lighting Flex, Twin, Brown, Black, White..... 9c yd
Lighting Flex, 3 Core Flat Brown Black..... 15c yd
For Jug Cords, Heaters, Irons, etc Domestiflex..... 35c yd
For Heavy Duty Heaters etc 3/40/.0076 sheathed..... 35c yd
TP3102 4 Core Flex 25c yd TP3104, 6 Core Flex 30c yd

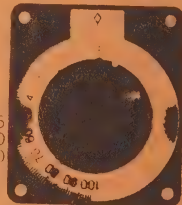
COUPLERS:

$\frac{1}{4}$ to $\frac{1}{4}$ Aluminium Shaft Couplers..... 32c
 $\frac{1}{4}$ to $\frac{1}{4}$ Flexible Coupler — Jackson, miniature..... \$1.05

DIALS and ACCESSORIES:

Jackson Full Vision Dial Assemblies 6/36..... \$3.95
Jackson Slide Rule Dial Assemblies SL 16..... \$3.60

Jap. Vernier Dial 36mm..... \$1.95
Vernier Dial 50mm..... \$2.35
Vernier Dial 70mm..... \$3.55



Jackson Planetary Drive 6 to 1 Ratio \$1.05

Jackson Planetary Drive, dual ratio... \$1.80

Jackson Epicyclic Drive..... \$1.30

FLUX:

Caroline Paste — for security in soldering 50c

FUSES:

Standard, 1 1/4" 100, 250, 500, m/a; 1, 2, 3, 5, 10, 25amp..... 12c
Standard, Slow Blow 1 1/4", 1, 2, 3, 5, 10amp..... 27c
Philips $\frac{3}{4}$ ", 80, 100, 125, 250, 400, 500, m/a; 1, 2amp..... 12c

FUSE HOLDERS:



Panel Mount for 1 1/4" standard fuse..... 60c

Panel Mount for $\frac{3}{4}$ " fuse..... 60c

PHILIPS, AWA, THORN Colour Television

New Zealand's largest stock of radio components.

GRILL MATERIAL:

For speaker enclosures: Tygan woven plastic, several patterns stocked — send for a free sample..... 60c per sq ft.

GROMMETS:

Rubber $\frac{1}{4}$ " 3, 8" 5c $\frac{1}{2}$ " 6c

HEADPHONES:

High Impedance, Crystal Set Type.....\$3.75
Single Earpiece and Cord, low impedance — suits most makes of transistor radios..... 64c
Single Earpiece and Cord, crystal high impedance, suitable for crystal set radios.....\$1.10
FOR HI FI SYSTEMS

PIONEER SE-50 — Super De Luxe.....\$63.75
PIONEER SE-20A — popular model.....\$30.24
AKG — most comfortable.....\$29.40
SANSUI SS2 — needs no introduction.....\$30.24
SANSUI SH15 — just on the market.....\$49.55
KENWOOD KH51 — Japanese excellence.....\$45.50
NEW MODELS CONTINUALLY ARRIVING IN STORE WRITE OR CALL AND SAMPLE OUR RANGE

ASHIDA VOX EARPET PERSONAL Earpiece: Ideal for transistor and TV personal listening.....\$4.64

HEATSINKS FOR POWER TRANSISTORS:

Aluminium Extruded Heat Sink $4\frac{1}{2}$ " x 3" a \$1.10; 6" x $4\frac{1}{2}$ " a \$1.50; 12" x $4\frac{1}{2}$ " a \$2.38

We stock a complete range of Heat Sinks and mounting Hardware for Transistors.

INTERCOM SETS:



2-Position Intercom



TALK BACK SYSTEM

TRICITY HOUSE PRICE, \$27.95

INSULATORS:

Egg, for all aerial systems 24c, Large Heavy Duty.....24c
TV refer 'Aerials'.

IRONS — SOLDERING:

Solon — the tradesman's tool, used by ALL professional and amateur radio enthusiasts.

615-15 watt, pencil bit.....\$6.10
625-25 watt, pencil bit.....\$6.48
694-65 watt, chisel bit.....\$8.67

Solon Soldering Spares

615 element assemblies \$4.80, bits 36c
625 elements \$2.53, bits with pins 52c, bit holders \$2.18
694 elements \$2.21, bits \$2.03.

Other spares available, eg handles, cords etc.

INSTANT HEAT IRONS:

SCOPE (Standard model).....\$7.86

MINISCOPE.....\$8.40

Transformers for both units.....\$14.75

Scope Iron Spares

Standard: Bits a 25c; Instrument Bits a 25c; Elements a 25c
Mini-scope: Bits a 25c; Elements 25c
Also available replacement cords, barrels, beads, push-rod assemblies etc.

ORYX INSTRUMENT IRONS

Model 6A, 6 volt.....\$4.80
Suitable transformer.....\$4.31
Spare bits.....62c
Light duty.....30c
ANTEX: Model FS 240, 25 watt.....\$7.85
Spare elements a \$3.68.....Bits a 93c

WELLER DUAL HEAT SOLDERING KIT, 100/140 watt

Supplied in an attractive gift pack.....\$11.11

JACKS:

Light duty.....30c
Japanese miniature sockets.....20c
Japanese sub-miniature sockets.....20c

BATTERY SAVER POWER PACKS:

Fountain Big Monster Power Pack 230 input to 6, 9, 12 volt output a 450 m/a — ideal for cassette recorders and battery radio-grams.....\$14.60
Fountain Little Monster Power Packs 230volt to 6 and 9 volt a 50 m/a.....\$7.75

LETRASET

REGISTERED



LETRA-SET:

Letra-set Instant Lettering, Dry Transfer Titles for electronic equipment, BLACK & WHITE.....\$3.90
Meter and Dial Marking Kit.....35c
Letra-set Tools.....\$9.00
Letra-set Electronic Symbol Kits.....\$9.00
Letra-set Letter Sheets, black.....\$1.50

LAMP CONVERTER:

Perlux Lamp Converter, Bottle Stopper.....\$1.75



LEADS TEST

Complete with prods and tips.

Two types available, with Banana Plug and thin pin.....85c
De-Luxe Leads.....\$2.20
Test Lead Cable, Red and Black.....20c yd
A range of heavy duty quality sets also available.

L.D.R. Devices.....47c

NE-O-LITE AC-DC NEON TESTER TRICITY HOUSE price \$1.03

CABLE:

Hook-up Wire: Colours — Red, Black, Yellow, Green, Blue, White, Orange, Brown, Purple.

7/0076 a 3c yd; 10/010 a 4c yd
148 AUTO CABLE.....6c yd
150 AUTO CABLE.....8c yd
152 AUTO CABLE.....13c yd
154 AUTO CABLE.....19c yd
Twin Bell Wire, 2 x 7/0076, Black or White.....8c yd
Twin Shielded Stereo Cable (for pickup arms).....35c yd
Twin Shielded Stereo Cable (individually shielded).....35c yd
Four Core Shielded Cable (individually shielded).....45c yd
Twisted Black and Red 10/010.....8c yd
Miniature Twisted Hearing Aid Cord.....20c yd

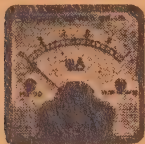
OSKER SWR — 200

Standing wave indicators

Specification

SWR Meter, Type: Directional Coupler, Ratios: 1:1 to 1:10 and Frequency Ranges: 3MHz to 200MHz, Impedance: 75 or 52 ohms. Full Scale Minimum Power: 100W at 3.5 MHz, 50W at 7 MHz, 15W at 14MHz, 5W at 21/28MHz, 1W at 50/144MHz \$47.95.

METERS-PANEL:



by JAPAN'S LEADING
MANUFACTURERS
SEW
HIOKI

MK38/MR38 — face size $1\frac{1}{2}$ " square: 50 u/a @ \$5.90; 100 u/a \$5.20; 500 u/a @ \$4.30; 1, 5, 10, 25, 50, 100, 150, 300, 500 m/a 1 amp, 5 amp @ \$3.90, 5 @ \$4.90; vu @ \$5.30; 15 volt, 25 volt @ \$3.90

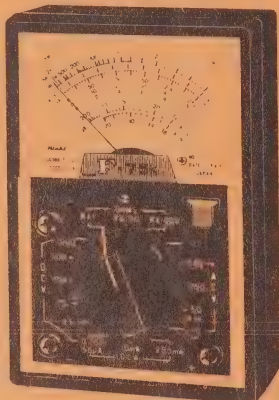
MK52/MR52 — face size 2 3/8 square:
50 u/a @ \$7.10; 100 u/a @ \$6.50; 500 u/a @ \$5.50; 1, 5, 10, 25, 50, 100, 150, 300, 500 m/a, 1 amp, 5 amp @ \$4.30; 15 volt, 25 volt @ \$4.30; 5 @ \$5.50; vu @ \$8.40.

EDGE TYPE 'S' meters (as used in TAIT CB4 transceivers) @ \$4.75

EDGE TYPE CENTRE ZERO BALANCE METERS..... @ \$2.20

F-75K

ONE OF THE
MOST
POPULAR
MULTIMETERS
AT
TRICITY HOUSE



HIOKI, Model F-75K 30k ohms per volt, meter protection, signal injector, our most popular line, supplied in attractive leather case..... \$26.95

PHILIPS — Model SMT101, 50,000 ohms per volt, with a particularly easy read dial scale, Voltages ranging between 6 volt and 1.2kv, both A.C. and D.C. A special current range of 12 amp. Ideal for the experimenter..... \$29.95ea

SANWA P2B Multimeter, Case size $4\frac{1}{2}$ x $3\frac{1}{4}$ x $1\frac{3}{8}$. Voltage Ranges: 10, 50, 250, 500, 1000 volts AC and DC. Current Ranges: 500 u/A, 10, 250 mA. Resistance Ranges: x 5, x 500 2000ohms per volt.

An excellent buy for the workshop \$12.67

MULTIMETERS FOR THE ADVANCED ENTHUSIAST
KYORITSU FET VOM K-200 OdB = 1mW (600ohm). Battery operated. Voltage Range: 3, 1, 3, 10, 30, 100, 300, 1000 volts. Current Range: 30, 300 u/A, 1, 3, 10, 30, 100, 300mA. Resistance Range: x 1, x 10, x 100, x 1000, x 10K, x 100K, 1M

\$94.00

TECH TE-130, 1000 ohms per volt. It's just a pocket unit, for quick, easy measurements..... \$7.70

TECH — TE-230, 10,000 ohms per volt, voltage ranges range from .5 volt to 1000 volt. Current range .05 to 500 m/a. Resistance Range x 1, x 10, x 100, 1000..... \$16.25

SANWA N — 101 DUAL RANGE, 50,000 ohms per volt, with silvered mirror scale. Voltage ranges from .3 volt to 1200 volt; Current range .03 to 6 amp..... \$44.65

TMK PL-436, 20,000 ohms per volt. This instrument has a large mirrored scale, easy to read. All popular ranges..... \$20.65

HIOKI L-55 FET 10 meg ohm — the De Luxe Instrument, small size and supplied with carrying case..... \$49.95

NUVISTOR SOCKETS..... 30c

230v plugs and sockets — full range.

PLUGS AND SOCKETS for EVERY PURPOSE



Belling Lee: Coaxial RF and Audio Plugs. Finished in Aluminium 32c; Red, Black, White, Green plastic 25c.

Belling Lee: Coaxial RF and Audio Chassis mounting sockets in Aluminium Flush and Protruding 25c, Red, Black, White, Green plastic protruding 25c.

Belling Lee: Coaxial Joiners 44c;

Bulthead Double sockets 55c.

BULGIN Plugs and Sockets complete: P194 6 pin \$1.73; P360 3 pin small mains type \$1.01; P73 3 pin large mains type \$1.38.

Banana Plugs and Sockets: Red, Black, plugs 14c; sockets 14c; Miniature Banana Plugs and Sockets, Red and Black 28c pr.

TV Aerial Wall Plugs and Sockets, protruding and flush 60c pair.

Cinch type Plugs and Covers and Wafer Sockets: 2 pin Polarised 15c pr; 3, 4, 5 pin 15c pr. Plugs only 12c.

Moulded plastic (cinch pattern) 4 pin plugs and sockets 40c pr.

SATO (Jones pattern) Cord Plugs and Chassis sockets: 2 pin \$1.00; 4pin \$1.75; 6pin \$1.50; 8pin \$1.60; 10pin \$2.36; 12pin \$2.70.

SATO (Jones pattern) Cord Plug and Cord sockets: 2pin \$1.30; 3 pin \$1.40; 4 pin \$1.75; 6 pin \$2.10; 8 pin \$2.25, 12 pin \$2.90.

SATO Cord Plug and Chassis socket, white, light duty: 2pin 30c; 3pin 40c; 4pin 48c; 6pin 68c; 8pin 80c; 12pin \$1.12.

SATO Twin Speaker Plugs and Sockets — ideal for stereo speaker sockets, 50c complete.

VHF/UHF RF COAXIAL PLUGS:

UHF PLUGS

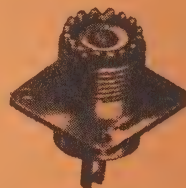
New low TRICITY HOUSE prices



BNC



PL259



SO239

PL259 Plugs @ 70c ea. SO239 Sockets @ 70c ea.

BNC Plug 70c; Chassis Socket 70c; PL259 Plug 70c; SO239 Chassis Socket 70c; PL259 Adaptors (for small size coax) 25c; PL259 Joiners @ \$1.20.

Belling Lee, 300ohm Cord Plugs and Sockets..... 27c pr

Phono (R.C.A.) Cinch Plugs and Chassis Sockets..... 15c pr

Phono Plugs only 10c; Phono Plugs with Plastic sheath..... 20c

Phono Cord Plug and Cord Socket, plastic sheath..... 25c pr

Miniature 2pin Cord Plug and Socket..... 23c pr

Miniature Phono Plugs and Chassis Sockets, 2 contact 40c pr.

Plugs only 20c; Sockets only 20c.

Phone Plugs Standard $\frac{1}{4}$ " barrel. Bakelite, 35c; Metal 45c.

Bulgin Right Angle 70c; Bulgin P38 64c; Sockets, chassis

mount non-insulated 30c.

Cord Sockets, bakelite 60c, metal 60c.

FIBRE GLASS BLANKS
for AMATEUR MOBILE AERIALS
\$2.50

Keep this price list handy.

POWER PLUGS:

For National Transistor Radios and Recorders..... 30c
 For Sanyo Transistor Radios and Recorders..... 30c
 For Aiwa Transistor Radios and Recorders..... 30c
 Chassis Sockets for same: National 45c; Sanyo 45c; Aiwa 45c (switched 55c).
 For Philips Record Players and units, plugs..... 75c
 DIN/EUROPEAN AUDIO PLUGS and SOCKETS: 3pin, Cord Plugs 55c; Chassis Sockets 35c; Cord Sockets 60c.
 5pin, 180deg and 270deg, Cord Plugs 55c, Chassis Sockets 35c; Cord Sockets 60c.
 6pin, Cord Plugs 55c, Chassis Sockets 35c, Cord Sockets 60c.
 Speaker Plugs (one round, one flat pin) 35c, Chassis Sockets @ 30c.
 5pin (in line) Connecting Plugs 55c.
 3pin (in line) 2 round and one flat centre pin 50c.

AIWA Microphone Plugs: 2 and 3pin Cord Sockets (for the connection to AIWA Microphones \$3.60 ea. 2pin Cord Plug and Sockets (for extensions) \$2.70.

AMPHENOL type Microphone Connectors: MC1F (Screw on cord socket 80c; PC1M (Chassis mount male) 44c, Midget Cord Plug and Chassis Socket complete 50c.
 Battery Plugs for 6 and 9 volt Batteries 15c. Clip and cable for 216 Battery 15c.
 Acme Microphone Connectors: Plugs, 2pin \$1.80; 3pin \$1.04, Chassis Sockets, 2pin 47c; 3pin 79c. Cord Socket, 2pin 75c; 3pin 94c.

POTENTIOMETERS:

Linear, wire wound, 10, 15, 25, 50, 100, 250, 500, 1k, 2k, 3k, 5k, 10k, 25k. IRC. 85c ea.
 Linear, carbon, 1k, 5k, 10k, 50k, 100k, 250k, 500k, 1 meg, 2 meg, 5 meg, Ducon or Lesa..... 50c ea
 Log, carbon, 1k, 2k, 3k, 5k, 10k, 25k, 50k, 100k, 250k, 500k, 1 meg, 2 meg, Ducon or Lesa..... 50c ea
 with switch 80c.
 Log carbon, dual gauged, 50k, 100k, 250k, 500k, 1 meg, 2 meg, Ducon, Lesa or Philips..... \$1.10 ea
 Log, carbon, concentric, 500k, 1 meg..... \$1.25 ea
 Log, anti-log, stereo balance controls, 500k, 1 meg, \$1.50 ea; with switch, \$1.75 ea.
 Linear, carbon ganged, 5k, 10k, 25k, 50k, 100k, 250k, 500k, 1 meg, 2 meg..... \$1.10 ea.
 Carbon Potentiometers, small diameter, 5k, 10k, 50c ea; with switch, 70c ea.
 Carbon Preset Potentiometers: 50, 100, 250, 500, 1k, 2k, 5k, 10k, 25k, 50k, 100k, 250k, 1 meg, 2 meg, 20c ea.
 Wafer type 20c; ceramic type 25c.

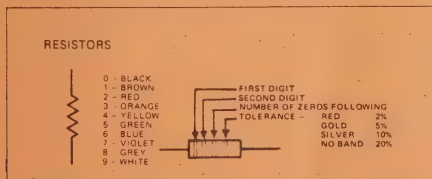
Slider type, complete with knob.

Log, 5k, 10k, 22k, 50k..... \$1.35
 Linear 50k, 100k, 250k, 500k..... \$1.35
 Ganged Log, 50k, 100k..... \$1.80

RESISTORS



Values are shown in ohms, Kohm (thousands of ohms) and M ohm (millions of ohms). They have no polarity and can be wired in either way round. Values are usually expressed by colour coded bands (see colour code chart below) so it helps to lay resistors same way round to ease checking. Wattage ratings refer to the power that can be dissipated, so a higher wattage than specified does not matter apart from space taken up. Tolerances are usually 20%, silver band denotes 10% gold 5%. Series connections give higher values and dissipation. Parallel connections reduce values (if values are the same just divide by the number of resistors) but multiply the dissipation.



Crack Carbon, High Stability, 5% tolerance, $\frac{1}{4}$ watt, 4c; $\frac{1}{2}$ watt, 6c; 1 watt 12c.

Sizes Stocked: .5, 1, 1.2, 1.5, 2.2, 2.7, 3.3, 3.9, 4.7, 10, 18, 22, 27, 33, 39, 47, 56, 68, 82, 100, 120, 150, 180, 220, 270, 330, 390, 470, 560, 680, 820, 1K, 1.2K, 1.5K, 1.8K, 2.2K, 2.7K, 3.3K, 3.9K, 4.7K, 5.6K, 6.8K, 8.2K, 10K, 12K, 15K, 18K, 22K, 27K, 33K, 39K, 47K, 56K, 68K, 82K, 100K, 120K, 150K, 180K, 220K, 270K, 330K, 390K, 470K, 560K, 680K, 820K, 1meg, 1.2meg, 1.5meg, 1.8meg, 2.2meg, 3.3meg, 3.9meg, 4.7meg, 5.6meg, 6.8meg, 8.2meg, 10meg.

Wire Wound, 5 watt, 10% tolerance.

Values Stocked: 4.7, 5.6, 10, 22, 27, 33, 39, 47, 100, 150, 220, 270, 330, 390, 470, 560, 680, 820, 1K, 1.5K, 2.2K, 2.7K, 4.7K, 10K, 15K..... 30c
 Wire Wound, 10watt, 10% tolerance, as above, also 22K, 33K, 39K, 47K..... 45c

Bridge type for Battery Chargers, 5 amp Universal \$3.12;
 Diodes, 1000 volt P.I.V. @ 1 amp @ 45c 200 volt P.I.V. @ $1\frac{1}{2}$ amp 40c.

RELAYS:

Double Pole, Double Throw, 6 to 18 volt, 280 ohms..... \$4.10
 Double Pole, Double Throw, Octal Plug In Type. 12 volt..... \$4.50
 Arrow, D.P.DT. Change Over, 12 volt D.C. and 230 volt A.C. \$8.90

SOCKETS, I.C., 14 Pin-Dual in Line..... 41c

16 Pin-Dual in Line..... 43c

Yes we still stock valve sockets, just write or call.

3 pin Transistor sockets..... 16c

SOLDER LUGS:

Silvered Double Ended to fit over $1/8$ " bolts and nuts..... 5c doz



Size 5 Savbit dispenser

Contains 18 s.w.g. Ersin Multicore Savbit alloy in a continuous coil used direct from the easy-to-use, free-standing dispenser.

TRICITY HOUSE
 PRICE
41c

SOLDER:

Ersin, the world's best for radio constructors. Tubes @ 41c; 1 bs 16g @ \$2.96; 20g, \$2.96.

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 ORDER NOW, TRICITY HOUSE price

\$2.10

SUPPRESSORS:

Auto, Standard 30c, Shrouded 40c, in line (for Distributor) 30c
 Push on type (for VWs) 26c.
 Coaxial Generator Condensors (for Amateur and R.T. use) \$2.35.
 Standard Generator Condensors 1uf..... 55c
 Alternator Condensors, 3uf..... \$1.40

SWITCHES - TOGGLE:



Miniature Single Pole, Single Throw..... 70c
 Miniature Double Pole, Double Throw..... 85c

Single Pole, Single Throw..... 45c
 Single Pole, Single Throw, with Flip Lever..... 50c
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We carry a large range of small pocket size torches, up to 6 cell, rubber covered types and lanterns.

Please print your name on mail orders.

Everything for the Radio Amateur



SWITCHES KEY:

Key Switches TMS T110..... 90c
Key Switches with large Red or Black Paddle..... \$1.70

SWITCHES - WAFER:

TRICITY HOUSE
prices are keen.
TMS Miniature



2 pole, 2 position, 1 bank; 4 pole, 2 position, 1 bank; 4 pole, 3 position, 1 bank; 6 pole, 2 position, 1 bank; 1 pole, 12 position, 1 bank; 3 pole, 4 position, 1 bank; 2 pole, 6 position 1 bank
60c ea.

OAK	
1 pole, 7 position 1 bank.....	\$2.10
4 pole 2 position 1 bank.....	\$2.80
3 pole 3 position 1 bank.....	\$2.70
1 pole 12 position 1 bank.....	\$2.60
4 pole 3 position 1 bank.....	\$2.80
2 pole 6 position 1 bank.....	\$2.70
2 pole 6 position 2 bank.....	\$4.00
1 pole 12 position 2 bank.....	\$4.10
1 pole 7 position 2 bank.....	\$3.10
2 pole 6 position 3 bank.....	\$5.30
1 pole 12 position 3 bank.....	\$5.60
3 pole 3 position 3 bank.....	\$5.10

SPECIAL SWITCHES made to order - 10 days

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Radiospares Wafer Switch Kits - make your switch in just a few minutes.

Switch assemblies..... \$1.35
Spacers * 4c; Screens * 8c; Wafers * 88c
Functions available, 4 pole 3 position; 3 pole 4 position; 6 pole 2 position; 2 pole 5 position; 4 pole 3 position; 1 pole 12 position.
These switches can be used in Tait C.B. Radio Telephones for crystal switching.

NOW AVAILABLE. Make your own wafer switches, with Radio Spares Assemblies. Standard size wafers and assembly units.
Assembly Units..... \$1.55
Wafers (see MINI-WAFER FUNCTIONS)..... \$1.10
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LONG SPACERS..... 5c
SHORT SPACERS..... 5c

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Jet Aid, switch, control, cleaner, lubricant..... \$1.75
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Jet Wet, removes and repels water, lubricates..... \$1.20
Electrolube..... \$2.85
Jet Oil all purpose penetrating oil..... \$1.20
CRC 2-26, moisture repellent, large can..... \$3.00
Servisol, switch cleaning lubricant
- Now in spray can..... \$2.23

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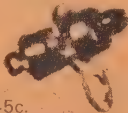


SWITCHES - Castelco:

Push on/off for Bedlamp replacement..... 20c
Push on/release off (bell push)..... 30c
Push off/release on (door switch)..... 30c
Luminous torpedo cord switches..... 35c

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Philips Chassis Mount, 3, 6, 12pf 20c; 18pf 25c
Philips Beehive Trimmers, 33pf, 33c; 66pf, 36c
Philips Encapsulated Trimmers for P.C. Work.
5pf, 30c; 10pf, 36c; 20pf, 44c; 60pf, 50c.
Compression Trimmers, 33pf 45c; 220pf, 750pf, 45c.



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Philips Rings 4322 - 020 - 36500 6mm O.D. 40c; 4322 - 020 - 91010 9mm O.D. 40c; 4322 - 020 - 91020 14mm O.D. 55c; 4322 - 020 - 36550 23mm O.D. 70c; 4322 - 020 - 36570 O.D. \$1.00.
4322 - 020 - 91090 - 35mm \$1.70.

Balun Cores 20c

Ferrite Beads..... 7c
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Large Selection..... 2c per lug

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Type 442/4505: 3.75 inches x 17 inches, 24 way, .15 x .15 matrix, \$1.60, Plain Board, unpunched, 12" x 6" x 1/16" 45c.
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Cat 601 .031..... 50c roll
Cat 602 .050..... 50c roll
Cat 603 .062..... 50c roll
Cat 604 .080..... 50c roll
Cat 605 .100..... 50c roll
Cat 607 .150..... 50c roll
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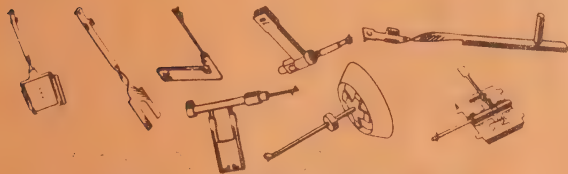
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NEW ZEALAND



TRICITY HOUSE STOCKS THE MOST COMPETITIVE PRICED RECORD STYLII

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PHILIPS N8207 Omnidirectional Dynamic microphones, for general purpose use, Value.....\$18.45

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Mic. Stand Adaptors, large to miniature thread.....50c

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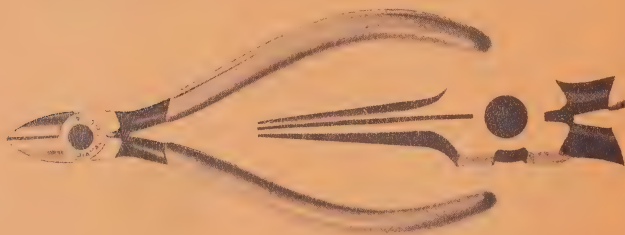
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SELF TAPPING SCREW, Pan Head, Zinc Plated 1/4 x 4 85c per packet of 200; 1/4 x 6 \$1.08 per packet of 200; 3/8 x 4 76c per packet of 200; 3/8 x 6 \$1.00 per packet of 200; 1/2 x 6 \$1.03 per packet of 200; 1/2 x 8 \$1.35 per packet of 200.

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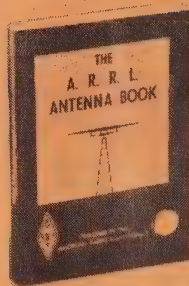
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NOW AVAILABLE

PLESSEY C80X HI-FI SPEAKERS

Power handling capacity 20watts R.M.S.
Fundamental resonance 45 Hz nominal
Voice Coil Impedance 8 or 15 ohm
Frequency Response 35 Hz to 20 kHz
+/- -6dB

TRICITY HOUSE PRICE \$15.89

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8" + 3" tweeter & C/O network.

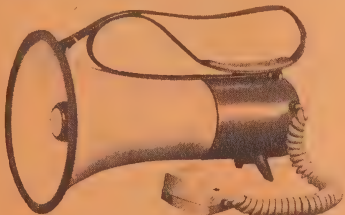
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We stock a large range of audio and Hi fi accessories.

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for cabling Hi-fi Systems

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DCL ½" Splicing Tape.....	65c
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ONE TRANSISTOR KITSET
for boys from 8 to 88
OUR PRICE \$5.80

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 PHILIPS: C40 @ \$2.10; C60 @ \$2.65; C90 @ \$3.30; C120 @ \$5.75.
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 AGFA: C60 @ \$4.35; C90 @ \$4.65; C120 @ \$6.20.
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PLESSEY SEMI-CONDUCTORS

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SL611C R.F. Amplifier.....	\$6.92
SL612C I.F. Amplifier.....	\$6.92
SL620C Vogad.....	\$11.02
SL621 A.G.C. Generator.....	\$8.72
SL622C A.F. Amp/Vogad/Sidetone Amp.....	\$34.24
SL623C A.M. Defector and AGC Amp and S.S.B. demod.....	\$24.95
SL630C A.F. Amplifier.....	\$6.34
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SL641C Receiver Mixer.....	\$14.74
SL701C Operational Amplifier.....	\$5.10
SL702C Operational Amplifier.....	\$5.10

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 3 watts R.M.S. into 7.5 load with 18 volt supply.
 2.2 watts R.M.S. into 15 load with 18 volt supply.
 All units supplied with circuit and connection data

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2N2646 U.J.T. Transistor.....	\$1.92
2N6027 (D13T) Programmable Uni-junction.....	\$1.05
C106B1 S.C.R. 200 volt @ 4 amp.....	\$1.56
C122D S.C.R. 400 volt @ 8 amp.....	\$3.72
C220D S.C.R. 500 volt @ 10 amp.....	\$3.90
2N2926 Silicon N.P.N. Switch.....	70c
PF40 Bridge, 400 P.I.V. @ 4 amp.....	\$2.18
SC45D Triac, 400 volt @ 10 amp.....	\$7.42
SC146D Triac (plastic) 400 volt @ 10 amp.....	\$4.20
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We can offer you two different models.
 The AYCEE, 500 watt unit @ \$13.99, and the BRANDT
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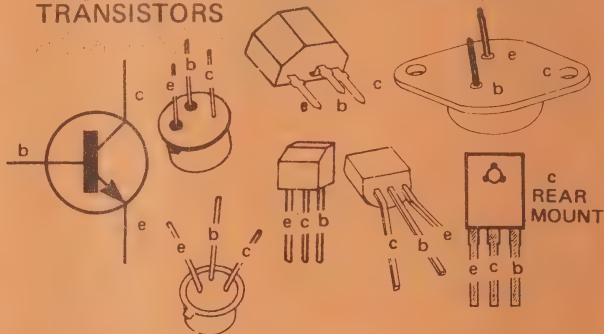
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TRICITY HOUSE stocks a large range of the world famous FAIRCHILD range of semi-conductors. We list, just a few.

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2N3053 NPN/MET 40v 150 m/a MA G.P. Amp.....	\$1.13
2N3055 NPN/MET 60v 15A TO3 115W PWR.....	\$1.96
2N5962 NPN/PLA 45v 50 m/a LOWF H. B. Amp.....	89c
AY1120 PNP/PLA 30v Audio Driver.....	78c
AY1121 NPN/PLA 25v Hi Gain Audio.....	78c
AY6110 PNP/MET 30v Audio Driver.....	78c
AY6118 NPN/MET 30v 500 m/a Audio Amp.....	72c
AY6119 PNP/MET 30v 500 m/a Audio Amp.....	72c
AY8110 PNP/MET 30v 500 m/a Audio Amp TO3.....	\$4.98
AY8139 NPN/MET 40v 1A TO5 10w Power.....	90c
AY8140 NPN/MET 60v 1A TO5 10w Power.....	90c
BC317 NPN/PLA 45v 150 m/a Lo Noise Amp.....	38c
BC318 NPN/PLA 30v 150 m/a Lo Noise Amp.....	36c
BC319 NPN/PLA 20v 150 m/a Lo Noise Amp.....	49c
BC320 PNP/PLA 45v 150 m/a Lo Noise Amp.....	36c
BC321 PNP/PLA 30v 150 m/a Low Noise Amp.....	36c
307HC Linear RF/IF Limiting Amp.....	\$1.56
709 HC Linear General Purpose OP Amp.....	\$1.18
723 HC Linear Voltage Regulator.....	\$1.56
739 DC Linear Dual L/N Audio Pre-Amp.....	\$2.81

These are just a few of the FAIRCHILD Semi-Conductors now available. Contact TRICITY HOUSE for your requirements.

TRANSISTORS



TRANSISTORS

Large stocks, new types constantly arriving. Here is a short handy reference list.

AA132 General Purpose Diode 110 volt P.I.V. 50 IfmA.....	36c
AC125 Germanium, p-n-p, pre-amp.....	60c
AC126 Germanium, p-n-p, pre-amp. driver.....	60c
AC127 Germanium, n-p-n, high gain output.....	60c
AC128 Germanium, p-n-p, high gain output.....	60c
AC132 Germanium, p-n-p, high gain, audio output.....	60c
AC175 GE n-p-n, 25v, 2a.....	\$1.26
AC176 Germanium, n-p-n, high gain, Class B output.....	\$1.26
AC187 G.E. n-p-n, 25v, 1a, 1watt.....	70c
AC188 Germanium, p-n-p, (used with AC187).....	65c
AD149 Germanium, p-n-p, for push-pull output.....	\$1.85
AD161 Germanium, n-p-n, output (used with AD162).....	\$1.35
AD162 Germanium, p-n-p, output (used with AD161).....	\$1.75
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AF114 Germanium, p-n-p, r.f. amp for a.m. and f.m.....	\$1.36
AF115 Germanium, p-n-p, for osc., mix, a.m./f.m. receivers.....	\$1.29
AF116 Germanium, p-n-p, I.F. amp. f.m. receivers.....	\$1.20
AF117 Germanium, p-n-p, mixer, oscillator, I.F.....	\$1.10
AF118 Germanium, p-n-p, video amp.....	\$1.76
AF124 Germanium, p-n-p, r.f. amp. a.m./f.m. receivers.....	90c
AF126 Germanium, p-n-p, I.F. amp. in f.m. receivers.....	80c
AF139 Germanium, p-n-p, mixer/oscillators to 860 MHz.....	\$1.70
AS200 Silicon, n-p-n, 35volt, 50mA, V.H.F.....	\$2.16
AS204 Silicon, n-p-n, 40volt, 350mA, 500mW.....	\$1.71
BA100 Silicon junction diode, for General Purpose.....	40c
BA102 Silicon variable capacitance Diode.....	50c
BC107 Silicon n-p-n, audio driver.....	60c
BC108 Silicon n-p-n, audio pre-amp, in radio and tv.....	60c
BC109 Silicon n-p-n, low noise input, hi-fi systems.....	70c
BC148 Silicon, n-p-n, 30volt, 100mA, 280mW.....	63c
BC177 Silicon, n-p-n, 45volt, 100mA (BC107).....	70c
BC178 Silicon, p-n-p, 20volt, 100mA (BC108).....	70c
BC239 n-p-n, driver, audio pre-amp (BC169C).....	40c

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22", as illustrated, \$811
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20" Table top \$683*
swivel legs \$696*
*not yet in production
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swivel legs \$792
tulip legs \$792
26" console \$889
table top \$819
swivel legs \$832

THORN

26" console \$838
26" consolette \$825
22" consolette \$767

The supply situation is not good, but these first-class sets are worth waiting for. Remember, we service the sets we sell.

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PHILIPS — AWA — THORN — FOUNTAIN — LEAK



FOUNTAIN   SERIES 9

RECORD DECKS

(on base, with cover)

Garrard SP25	\$ 90.70
Pioneer PL15	\$169.50
Dual 1214	\$125.00
Dual 1216	\$139.50
Dual 1218	\$186.14
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Pioneer A30	\$189.00
Fountain Magna	\$103.25
Fountain Regalia	\$ 82.90
Fountain Regenta	\$ 77.75
Fountain Serena	\$ 59.00
Fountain Coda	\$ 39.00



STEREO SYSTEMS

Ariel Advent	\$175.00
Fountain Matador	\$237.00
Fountain Toreador	\$265.00
Fountain Mazurka	\$322.00
Fountain Regent	\$399.00
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Fountain AF1550	\$174.20
Fountain RF1660	\$244.00
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POWER OUTPUT. 12 watts, R.M.S. per channel at 8 ohm nominal impedance

FREQUENCY RESPONSE. 25 Hz to 35 kHz \pm 2dB.

DISTORTION. Less than 0.25% at 10 watts, 1 kHz.

with tuner, less speakers

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BARLOW WADLEY'S

unique
CRYSTAL CONTROLLED
RECEIVER

XCR-30 Mark 2
\$225.00

The XCR-30 is a specialized, high sensitivity, portable short wave receiver designed to provide precision frequency tuning over the full short wave spectrum up to 30 MHz, with exceptional frequency stability for both amplitude modulated (AM) and single sideband (SSB) transmissions.

.5 to 30 MHz continuous (no wave change switch!); 10 KHz readout over entire tuning range; dial accuracy within 1 KHz at all frequencies; AM, CW, SSB (upper and lower); A completely new concept in radio design.

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T180 CB4 Radio Telephone, fitted with 26.5 MHz.....	\$169.50
T157 AC Power Supply and Speaker Unit.....	\$31.80
Portable Kit.....	\$13.65
Mobile Aerial with Centre Loaded Coil.....	\$15.60
Mobile Aerial Helical type.....	\$20.50
Mobile Cradle.....	\$9.60
Extension Speaker.....	\$5.40
Ground Plane Antenna.....	\$38.00
Crystals for Channels 1, 2, 3, 4, 5, 6, 7, per set \$6.60	
Write for an illustrated brochure	
Autocrat CB2 Hand Held 2 channel CB Sets.....	\$79.50 ea

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TAIT CITIZEN BAND TRANSCEIVERS



Write for
full details

IONOSPHERIC PREDICTIONS

BY W. MCMILLAN ZL2OH

NOTES ON THE IONOSPHERIC PREDICTION TABLES PREPARED BY THE AUSTRALIAN IONOSPHERIC PREDICTION SERVICE—

Ionospheric prediction tables supplied by the Ionospheric Prediction Service of Australia show both the MUF (maximum usable frequency) and the ALF (absorption limiting frequency) at two-hourly intervals over the full 24 hour period. For example, the column headed 18 shows the predictions for 1800 GMT corresponding to 6 p.m. New Zealand time. For intermediate times, interpolation will usually provide a reasonable approximation. The unit for frequencies is 1 MHz.

The MUF may be defined in general terms as the highest frequency which can be transmitted by ionospheric refraction alone between two places. This upper limit to the frequency of the signals reflected depends on the density and height of the ionisation, and varies with the time of day, season, latitude and period of sunspot cycle. Predictions are for the monthly median value, which is the frequency equalled or exceeded 50% of the days during the month at a specified time of day. Generally, except during very disturbed days, the MUF will be within $\pm 15\%$ of the monthly average.

The ALF (sometimes referred to as the lowest usable high frequency) is the frequency below which normal communication over a given path is not possible because of absorption. It will vary with transmitter power and aerial gain, and is not as clearly defined as the MUF. Where the ALF falls to zero, this indicates that the transmission path is in darkness, and under favourable conditions, communication could be possible on all amateur bands below the MUF.

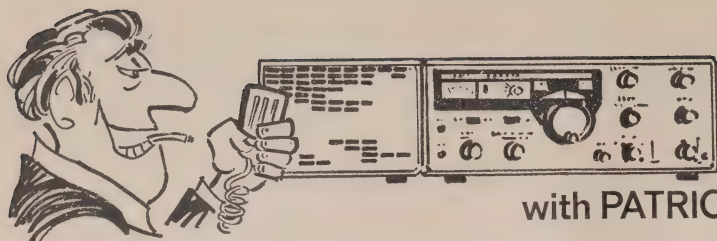
The circuits listed in *Break-in* have been chosen to give as wide a coverage as possible, noting that the predictions are valid for places up to some hundreds of miles from the cities designated. For places outside these limits, it may be possible to derive an approximate figure from the predictions for places in the same general area or in the same general direction. For example, the MUF and ALF for a circuit to Quito can be roughly estimated by comparing the figures for the circuits to Rio de Janeiro and Barbados. A great circle azimuthal map based on Wellington will be found to be very helpful for DX work.

Unless otherwise stated, all circuits are short path. On the longer circuits, long path propagation is also possible. This applies especially to Western Europe, and predictions for both the long and the short paths to London are shown. The long path (LR) lies approximately south-east and the short path (SR) north-west from New Zealand. As south-western Europe is nearly at the antipodes of New Zealand, other transmission paths are possible under certain conditions.

PHONETIC ALPHABET

Some words are likely to be misunderstood when passed over radio telephone circuits, due to phonetic similarity. A number of phonetic alphabets have been introduced to overcome this, the following being the most generally accepted at the present time.

A	ALFA	AL fah
B	BRAVO	BRAH voh
C	CHARLIE	CHAR lee
D	DELTA	DELL tah
E	ECHO	ECK oh
F	FOXTROT	FOKS trot
G	GOLF	GOLF
H	HOTEL	hoh TELL
I	INDIA	IN dee ah
J	JULIETT	JEW lee ETT
K	KILO	KEY loh
L	LIMA	LEE mah
M	MIKE	MIKE
N	NOVEMBER	no VEM ber
O	OSCAR	OSS cah
P	PAPA	pah PAH
Q	QUEBEC	Kwee BECK or Key BECK
R	ROMEO	ROW me oh
S	SIERRA	see AIR rah
T	TANGO	TANG go
U	UNIFORM	YOU nee form or OO nee form
V	VICTOR	VIK tah
W	WHISKEY	WISS key
X	X-RAY	ECKS ray
Y	YANKEE	YANG key
Z	ZULU	ZOO loo
1		WUN
2		TOO
3		THUH-REE
4		FO-WER
5		FYIV
6		SIX
7		SEVEN
8		AIT
9		NINER
0		ZERO



QRZ DX

with PATRICK McRODDEN ZL4NH

One of the first things you have to sort out before you let yourself loose on the bands is the priority of your requirements, for instance if you are going to be a real big gun DXer and chase everything on SSB and CW there is little future in obtaining a transceiver that is not equipped with an effective CW filter, the band activity today and the yearly increase is making the QRM worse every day.

If you just enjoy the local rag chewing and working your friend a few hundred miles away there is no need to invest a large amount of capital in a set up that would work the world at any time.

Let us assume that you have obtained your high frequency permit and after having an eyeball contact with a visiting overseas amateur radio operator (I detest the word Ham) you wish to contact him on the higher frequencies, all that is required to make a very enjoyable contact is to pick the correct time of operation, in other words when the skip (propagation) is at its peak or coming up to it and then as it changes you can move from band to band. A contact commenced at 0600 UT on 3.800 MHz can easily be continued on 14 MHz up till 1000 or 1200 UT depending on the time of year, seasonal changes and of course the area involved.

We will now move to the second type of operator, he has been an SWL for many years and has finally made the step into amateur radio and now wants to work all the rare DX in the world including Africans, that he heard in his SWL days.

If he thinks for one moment he is going to work it all with a slip-shod dipole (there are plenty of these around) and odd operating hours he is going to be a very disappointed person in double quick time.

To keep up with the "Big Guns" or even make any ground with them you need everything going for you that you can get, a very efficient yagi or quad, a good tower preferably over 40 feet in height and up to 70 feet if local by-laws and your wallet will allow this. Yes, we know you will work some very excellent DX and even some very rare Africans on your dipole antenna at 25 feet, but this is more the exception than the rule and to be in the hunt at all times you must be prepared to set yourself up with the best station you can reasonably afford to either purchase or build.

After getting yourself organised with a new, used or home-brew transceiver the next step is to get the antenna. You can make up your own mind on the virtues of the quad versus yagi argument as this discussion on the merits of the two types of antennas could rage on for hours with no satisfactory conclusion being reached. I personally have tried my

antenna against the locals with their antennas and mine gave better results so I stayed with the type that is being used at present.

Having decided to put up either a Yagi or a Quad you must then decide if you require a mono-band or a tri-band beam. You can work the world very easily on 20 metres so a single band beam will do you well. However, if propagation on 20m to a rare DX station is out at the usual listening time, or perhaps he is not on then, you are done and have to wait till the next opportunity, BUT if you have a tri-band beam you get another shot at him on 15 metres or 10 metres when the opening occurs. So the message is coming through loud and clear. If you want to be a Big Gun DXer you must be versatile and operate on all the bands, so you need a tri-band beam.

Having established that you want your transceiver to be such and such a type with all the plug in or supplied extras and also decided that you will build or buy one type or another rotating antenna, you are now faced with what will I rotate it with? First start as we all do, the arm-strong method, then either build or buy a good rotator. Don't expect to pay about fifty bucks for a rotator and then hope to turn a four or six element yagi with it. Finally the tower; you can go for many types and they all have their good points including initial cost and maintenance.

The best type to build or have built is a fold over, so that you can work on your beam for maintenance or tuning. If you can make it crank-up at the same time so much the better for your peace of mind in the storms.

Now you are all set. Real bang on transceiver or transmitter/receiver combination, four element rotatable beam and a 70 foot crank up, fold over tower, and you want to know when to work all this rare DX, especially the Africans. It's easy. Look, listen and check the propagation charts in your *Break-in*. You will soon get to know what beam heading to use, what band to use and also what time to give the directional call to Africa. One final tip. If you happen to be working another DX station and your beam is in the general direction of Africa, just give the odd pause between overs. Remember we are also rare DX of Africa and its amazing just how many times an African will call you while you are working an American or Canadian.

DXing is fun. DXing can give you enjoyment. DXing can give you ulcers. DXing can cost you many hours of lost sleep. DXing requires many hours of patient listening and calling. DXing is rewarding.

Good Luck and Good DXing.

HONORARY LIFE MEMBERS

ZL3HA—Mr H. F. Arnold, 165 Knowles St., Christchurch.
ZL2IQ—Mr R. Cassey, 92 Amritsar St., Khandallah, Wellington.

ZL2AZ—Mr T. R. Clarkson, 35 Walter St., Lowry Bay, Eastbourne.
ZL2LB—Mr W. Fouhy, Box 489, Wellington.
ZL2VU—Mr J. F. Freeman, 10 Warwick St., Wellington.
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OZ1AX
ZL1AX
ZL1FQ
ZL3CG
ZL2AB
ZL3AS
ZL4BP
ZL1AA
ZL2BH
ZL4FK
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ZL2MY
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ZL2LB
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ZL2AFB
ZL2BY
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ZL2GU
ZL3HA
ZL1VA
ZL1CK

ZL2VN
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ZL1IY
ZL2AMJ
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VARIABLE CAPACITORS, DRIVES, AND STAND-OFF INSULATORS
TRANSMITTERS AND RECEIVERS



S.L.16 DRIVE Cat. No. 5191

Drive ratio: 10:1. Pointer travels $4\frac{3}{8}$ ".
Printed in two colours. Escutcheon.
Aperture $6\frac{1}{4}$ " x $1\frac{5}{8}$ ". Escutcheon overall
dims. $7\frac{1}{4}$ " x $2\frac{5}{8}$ ".

SINGLE STATOR CAPACITOR

Type C604. Cat. No. 4268

For low power transmitters and receivers.
Pos. T.C. 50 ppm/°C.

Part No.	Capacity	SE style tested
C.604 SE 40	10-367 pF	up to 750 VDC
C.604 SE 18	10-168 pF	SI (low power transmitters)
C.604 SI 30	12-170 pF	tested up to 1500 VDC.
C.604 SI 16	8-58 pF	
C.604 SI 10	6-38 pF	

One hole fixing (spindle) or chassis mounting. Length behind plate $3\frac{3}{8}$ ". Height (includes vanes) $2\frac{3}{8}$ ". Spindle $\frac{1}{4}$ " x $\frac{1}{16}$ ".

Type C.603. Cat. No. 4630

Similar to C.604 above but with Split Stator.



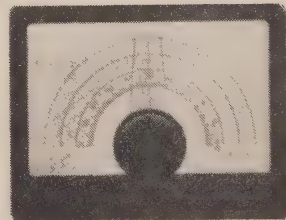
BALL DRIVE DIAL Cat. No. 4489/C

Dial knob contains Jackson Ball Drive Unit with 6:1 ratio. Reversible dial. One side calibrated 0-100, other blank for individual requirements, with cursor. Fitted externally, thus saving space inside equipment. Dial 4" diameter.

MINIATURE AIR DIELECTRIC TRIMMER

Type C.1604. Cat. No. 5439

Similar to C.16, but with $\frac{1}{4}$ " x 40 TPI Bush and locking nut for spindle hold mounting. Shaft Diameter $\frac{5}{16}$ ". Pos. T.C. 50 ppm/°C. S.L.C. Law. Siliconed ceramic Insulation. Soldered and silver plated brass vanes. Beryllium copper rotor spring. Same capacities as Type C.16.



6/36 DRIVE Cat. No. 4103/A

Drive ratios: 6:1 (coarse) and 36:1 (fine). One coaxial shaft. Calibrated scale: 0-100 plus room for individual calibrations. Will fit front panels up to $\frac{3}{8}$ " thickness, or more with longer screws. Front area $4\frac{5}{8}$ " x $3\frac{3}{4}$ ".

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TABLE OF FREQUENCIES

2182 kHz:

All ships licensed for operation in the authorised marine radiotelephone service frequency bands between 1605 kHz and 2850 kHz must be able to transmit and receive speech transmissions on the frequency of 2182 kHz.

2182 kHz is the international radiotelephone distress frequency and distress, urgency and safety calls should be made on this frequency. It is also the general calling and reply frequency when establishing communication with other stations of the maritime service and for use by coast stations to announce the transmission on other frequencies of traffic lists. The exchange of traffic or other radio communications except distress, urgency or safety should be carried out on a working or intership frequency so as to leave 2182 kHz available for the reception of distress calls.

Stations, other than those in distress, should listen for a reasonable period before transmitting on 2182 kHz to make sure no distress traffic is being sent.

2162 kHz or 2012 kHz

These frequencies are for use by ships wishing to send messages to Post Office coast stations or

Harbour Board stations after communication has been established on 2182 kHz. They may also be used by Harbour Board stations as a working frequency.

2068 kHz, 2456 kHz, 2638 kHz

For inter-ship working after communication has been established on 2182 kHz or 2045 kHz.

2480 kHz or 2444 kHz

For use at privately-operated coast stations and by ships for exchanging messages after communication has been established on 2045 kHz.

2153 kHz

Used by Wellington Radio as a working frequency.

2207 kHz

Used by Auckland, Awarua, and Chatham Islands Radio stations as a working frequency.

2045 kHz

For calling between ships and privately-operated coast stations. May also be used for calling other ships equipped with 2045 kHz.

2090 kHz or 2128 kHz

For communication with shore stations licensed to provide communication facilities for aquatic sporting events. These frequencies are also used by land stations providing communications for sporting events. (2182 kHz also used by some marine rescue organisations.)

RADIO STATIONS

THE following harbour board and private coast radio stations are detailed in geographical sequence from the northernmost station in the North Island to the southernmost station in Stewart Island. In some cases, an area location has been

given rather than the exact locality to provide an easy reference for yachtsmen not familiar with the local scene.

Harbour board stations provide radio service for their own shipping and private radio stations give service to their mem-

bers. However, both harbour and private stations handle emergency calls in their areas. This list has been brought up to date for 1973 from amendments supplied by the Post Office.

HARBOUR BOARD STATIONS

STATION		FREQUENCY	WATCH HOURS
Opua	ZLUP	2182, 2162, 2012, 2045, 1675	As required
Marsden Point	ZLKW	2182, 2162, 2012, 2045, 1675	Continuous
Marsden Point	V.H.F.	Channels 12, 14, 16	Continuous
Auckland	ZLEA	1675, 2012, 2182	Continuous on 2182
Auckland	V.H.F.	Channels 9, 12, 14, 16	Continuous on Ch. 16
Manukau Heads	ZLEF	1675, 2012, 2162, 2182	0815-0830, 1815-1830, and on request on 2182
Onehunga	ZLEF2	2182, 2162, 2012, 1675	Irregular
Tauranga	ZLDQ	1675, 2012, 2162, 2182, 2045	15 mins. on the hour every two hours commencing at midnight
Tauranga	V.H.F.	Channels 16, 14, 12	Continuous when vessels working port
Raglan	ZLLA	2182, 2162, 2045, 2012	Irregular
Tokomaru Bay	ZLRA	2182, 2162	Irregular
Tolaga Bay	ZLRB	2182, 2162	Irregular
Gisborne	ZLEC	2182, 2162, 2012, 1675, 2045	15 minutes 0800, 1130, 1330, 1600, Monday to Friday. Also one hour before cargo vessel is due
Gisborne	V.H.F.	Channels 16, 12 Channel 14 (working)	15 minutes 0800, 1130, 1330, 1600, Monday to Friday. Also one hour before cargo vessel is due

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STATION		FREQUENCY	WATCH HOURS
New Plymouth	ZLNE	2182, 2162, 2045, 2012, 1675	15 minutes every four hours commencing midnight
New Plymouth		Channels 16, 12	Continuous listening watch
Napier	ZLNA	2182, 2162, 2012, 2045	10 minutes every four hours on the hour.
Napier		Channel 16, 12, 19	10 minutes every four hours on the hour
Wanganui	ZLHW	2182, 2162, 2012	Irregular
	When vessels expected,	watch kept 10 minutes	at four-hourly intervals commencing 0350
Wellington	ZLNB	2182, 2012, 1675	Continuous — also Wn VHF channels 16, 14, 12
Beacon Hill	ZLEG	2182, 1675, 2012, 2128	Continuous — emergency only
Beacon Hill, Wgton		Channels 16, 14, 12	Continuous
Tarakohe	ZLKA	2182, 2162, 2012	Irregular
Pictou	ZLVH	2182, 2162, 2012	0900-0933, 1140-1203, 1540-1603 Monday to Friday
Motueka	ZLHY	2182, 2162	0800-0815, 1600-1615 and by arrangement, Monday to Friday
Nelson	ZLED	2182, 2162	10 minutes every four hours commencing midnight
Nelson		Channels 16, 12	10 minutes every four hours commencing midnight
Westport	ZLAZ	2182, 2162, 2012, 2045	0000-0015, 0400-0415, 0730-0803, 1130-1145, 1300-1345, 1530-1600, 2000-2015
Greymouth	ZLNC	2182, 2162, 2012, 2045	0750-0810, 1200-1210, 1600-1610, 1950-2010
			Monday to Friday. Weekends by arrangement when vessel is within 100 miles radius
Lyttelton	ZLHL	1675, 2182, 2162, 2012, 2045	24-hour watch
Lyttelton		Channels 12, 14, 16	24-hour watch
Timaru	ZLSD	2182, 2162, 2045	15 minutes every four hours commencing 0345-0400
Timaru		Channels, 16, 12	15 minutes every four hours commencing 0345-0400
Oamaru	ZLRM	2182, 2162, 2012, 2045	By arrangement
Dunedin	ZLER	1675, 2182, 2162	Continuous on 1675
"		16, 14, 12	Continuous on 16
Taiaroa Heads	ZLES	1675, 2182, 2162, 2045, 2012	Continuous on 1675, 2182
Taiaroa Heads		Channels 12, 14, 16	Continuous on 16
Stirling Point	ZLRW	1675, 2012, 2182, 2045	From 30 to 40 minutes past the hour each hour
Stirling Point		16, 12	From 30 to 40 minutes past the hour each hour
			Continuous on 16

(Note: Harbour Board stations may use 2045 kHz in emergency only)

PRIVATE COAST STATIONS

Parengarenga	ZLYP	2182, 2045, 2444	0800-0830, 1600-1630
Unahi	ZLNF	2182, 2162, 2012, 2045, 2444	0745-0800, 1545-1600, 1845-1900, on 2162, 0800-0815, 1600-1615, 1900-1915 on 2045
Whangaroa	ZLHG	2045, 2444, 2182 (emergency)	1115-1130, 1315-1330, 1515-1530, 1715-1730
Urupukapuka Island	ZLAX	2045, 2182	Irregular 1000-1700
Russell	ZLRC	2045, 2182, 2444	Winter 0730-1730, Summer 0700-1900
Tutukaka	ZLDW	2045	Daylight hours all year
Rawene	ZLLG	2045, 2182	0900-1700
Whakapirau	ZLTC	2182, 2045	0900-0930, 1200-1230, 1500-1530
Waipu	ZLSM	2045, 2182, 2444	0700-0730, 1245-1315, 1700-1800
Mangawhai	ZKYB	2182, 2045, 2444 (2480 receiving)	1200-1215, 1900-1915 all weekends and holidays on 2444
Te Kopuru	ZLCM	2045, 2182	0715-0745, 1215-1230, 1715-1730 weekdays. 0915-0930, 1215-1230, 1715-1730 weekends
Leigh	ZKUV	2045, 2182, 2444	0900-0930, 1330-1530, 1630-1700 Monday to Friday
Great Barrier	ZLVR	2045, 2182, 2444	0900-0930, 1215-1230, 1700-1715, 2030-2100 on 2045
Port Albert	ZKUO	2045, 2182, 2444	0900-0930, 1200-1230, and other times on request
Kawau Island	ZLSU	2045, 2182, 2444	0900-1800
Port Charles	ZLNQ	2045, 2182, 2444	0745-0800, 1233-1245, 1915-1930, 1945-2015, 2145-2200

Weather reports given on scheds. Also messages per telephone Post Office (collect)

STATION		FREQUENCY	WATCH HOURS
Ponui Island	ZLLP	2045, 2182	Irregular
Roto Roa Island	ZLRT	2045, 2182	Irregular
Whitianga	ZLNS	2045, 2182	1245-1300, 1645-1700
Thames	ZLSV	2045, 2182, 2444	0833-0845, 1103-1115, 1403-1415, 1703-1715
Tairua	ZLYM	2045, 2182, 2444	Not known
Whangamata	ZLRH	2045, 2182	1300-1315, 1515-1530
Motiti Island	ZLSF	2045, 2182, 2444	On request. Telephone — exchange Motiti Island
Tauranga	ZLHT	2045, 2182, 2444	0800-0830, 1200-1230, 1600-1630, 1830-1900
Mayor Island	ZLNO	2045, 2182	Not known
Raglan	ZLJS	2045, 2182, 2444	0845-0900, 1115-1130, 1415-1430
Maketu	ZLUK	2045, 2182	0845-0900, 1140-1200, 1730-1745
Opotiki	ZLCO	2045, 2182	0735-0745, 1240-1300, 1545-1600, 1805-1810
East Cape	ZLQS	2012, 2182	0600, 0900, 1500, 1800, 2100
Rotoiti	ZLQA	2045, 2182	Irregular and by arrangement, Phone 786
Kawhia	ZLLL	2045, 2182, 2444	0945-1000, 1245-1300, 1545-1600, and as requested
Rotorua	ZLVK	2045, 2182	By appointment. Phone 84-069 Rotorua
Gisborne	ZLDL	2182, 2045, 2444 (2480. listening)	0700-0715, 1230-1245, 1545-1600 (only if requested), 1730-1745
Lake Waikaremoana	ZKUE	2045, 2182, 2444	0915-0925, 1715-1725. Midday call by arrangement
Taupo	ZLHE	2045, 2182	October 1 - June 30 0835-0855, 1235-1255, 1635-1655, 1835-1855 July 1 - September 30 1235-1255. Other calls by arrangement
Mahia	ZLAU	2045, 2182	0800-0815, 1200-1215, 1700-1715
New Plymouth	ZLHP	2045, 2182, 2444	Weekdays on request. Sundays: 0800-0815, 1000-1015, 1400-1415, 1600-1615, 2000-2015
Napier	ZLHD	2045, 2182, 2444	Monday to Saturday 0730, 1300, 1800. Sundays 0900, 1300, 1800. Weather forecast given daily at 1300
Portland Island	ZMT	2012, 2182	0610, 0900, 0915, 1155, 1455, 1810
Clifton Beach	NA 246	26.5 mHz	Irregular
Patea	ZLKX	2045, 2182, 2444	As required
Wanganui	ZLTQ	2045, 2182	On request
Riversdale (Masterton)	ZKJT	2045, 2182, 2444	Not known
Plimmerton	ZLCA	2090, 2182	5 minutes after even hours weekends or special arrangement
D'Urville Island	ZLDB	2045, 2182	0915-0930, 1215, 1500-1515
Havelock	ZLLU	2045, 2182, 2444	0805, 1205, 1633*, 2035, for 20 minutes (*Fridays 1533)
Nelson	ZLNI	2045, 2182, 2444	0900-0915, 1300-1315, 1810-1825
Nelson	ZLHM	2182, 2045, 2444	Not known
Marlborough Sounds	ZLEM	2045	Irregular
Picton	ZLLK	2045, 2182, 2444	0830-1800
Westport	ZLLC	2045, 2182	0800-1700 Monday to Friday. 1000-1015, 1500-1515 weekends and by arrangement. Only operates while fishing fleet is out
Westport	ZKIO	2045, 2444, 2182	1500-1515 weekdays, 1200-1215 weekends and by arrangement
Kaikoura	ZLNR	2045, 2444	0930, 1130, 1430, 1630 weekdays. Weekends by appointment. 1630-2200 by appointment
An auxiliary station operates Monday to Saturday same frequency			
Greymouth	ZLHJ	2045, 2182	0715, 0900, 1230, 1500, 1845
Motunau Beach	ZLDP	2045, 2182, 2444	By arrangement
Lyttelton	ZLHH	2045, 2182	Not known
Lyttelton	ZLBW	2182, 2045, 2128	By arrangement. Phone Christchurch 888-454.
Akaroa	ZLNG	2045, 2182	0800-0815, 1215-1230, 1700-1715
Waiatoto	ZLNK	2045, 2182	0900, 1230, 1945 for 15 minutes
Timaru	ZLHI	2045, 2182, 2444	0800-2100
Jacksons Bay	ZLJA	2045, 2182, 2444	Irregular
Wanaka	ZLKC	2045	Irregular
Milford Sound	ZLUN	2045, 2182	On request
Oamaru	ZLHN	2045, 2182, 2444	0700-1800, with call standby 0830, 1230, 1730
Moeraki	ZLEK	2045, 2182, 2444	By arrangement phone J. McLellan, 72J Hampden
Queenstown	ZLYU	2045, 2182, 2444	0915, 1215, 1733. Continuous when boats are on lake
Te Anau	ZLRJ	4070	December-March: 0800-2000. April-November: 0900-1700
Te Anau	ZLCE	2045, 2182, 2444	0900-0930, 1230-1300, 1930-2000
Port Chalmers	ZLHF	2045, 2182, 2444	0900-1700
Taieri Mouth	ZLRY	2045, 2182, 2444	1200-1300, and on request
Waikawa	ZLCN	2045, 2182, 2444	0730-0930, 1200-1330, 1945-2130
Stewart Island	ZLRZ	2045, 2182, 2444	0740, 0910, 1200, 1500, 1800. Listening watches at 1940 and 2110 only if requested by small craft at 1800

(Note: Private coast stations may use 2182 kHz in emergency only)

METEOROLOGICAL WARNINGS

Meteorological warnings are broadcast on receipt and after the next silence period following receipt, i.e.:

	Frequency (kHz)	Minutes after the hour
Awarua Radio (ZLB)	2207	3 or 33
Wellington Radio (ZLW)	2153	6 or 36
Auckland Radio (ZLD)	2207	9 or 39
Chatham Islands Radio (ZLC)		12 or 42

and as shown in the appropriate schedules above. They are also repeated by Awarua Radio (ZLB), Wellington Radio (ZLW), Chatham Islands Radio (ZLC) and Auckland Radio (ZLD), at the next schedule time for broadcasting navigational warnings following receipt.

CITIZEN BAND

FREQUENCIES

Frequencies for general use:

26.425 MHz	26.525 MHz
26.450 MHz	26.550 MHz
26.475 MHz	26.575 MHz
26.500 MHz	

Note: Only type-approved equipment may be used. A licence is required for each set.

ZKY Schedule

TEMPORARY TRANSMISSIONS

1. The evening hours of transmissions of the morse training broadcast transmitted by this Base (ZKY) on 3236/6885 kHz will be temporarily changed as from the 16th April to the 3rd August 1973. Amended broadcast times as follows.

Mon - Thur 0900 - 1015
1715 - 1800
Fri 0900 - 1015

Amended times will be broadcast on daily schedules from 2nd - 16th April.

2. The morse tests which are transmitted on the first Tuesday of every second month (next test 3rd April) will remain as follows:—

1900 - 1905 15 w.p.m. Plain Language
1905 - 1910 20 w.p.m. Plain Language
1910 - 1915 25 w.p.m. Plain Language
1915 - 1920 30 w.p.m. Plain Language



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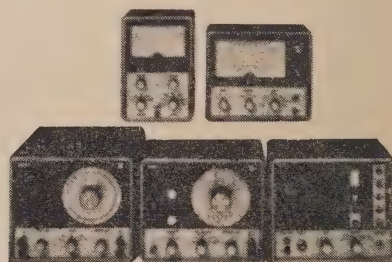
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TIME SIGNALS

For more than a century a Time Service has been operating in New Zealand. The Colonial Time Service was founded in 1869, and before this, a service was provided by the Wellington Provincial Government.

The Colonial Time Service Observatory was built on a site in the Bolton Street Cemetery, where the Richard Seddon memorial now stands. In 1907 the Service was transferred to the Hector Observatory, which had been newly built above a redundant harbour defence fort at Kelburn and it is from here that the Service operates today. The Observatory was renamed the Dominion Observatory in 1925 and became part of the Department of Scientific and Industrial Research in 1926.

Situated in the gardens 100 yards from the upper terminal of the Kelburn Cable Car, the Observatory overlooks Wellington City and harbour. The building has been progressively extended and modified, but the original styling has been preserved. Below ground are signs left by its first occupants. Basement rooms containing modern technical equipment still have the original doors, marked "Cartridge Room" and "Shell Store".

Before the nearby Carter Observatory was established in 1938, and for some years after, the Dominion Observatory conducted visual sunspot and auroral observations, double-star measurements, the timing of occultations, planetary and cometary work and positional measurements of Eros.

Although no astronomical measurements are being made at present, the Service is equipped with a Danjon astrolabe and has participated in a revision of the placings of some southern stars.

New Zealand Time was first passed visually to ships in Wellington Harbour. By day, the signals were sent by means of a time-ball mounted on the Wellington Custom-house and arranged so as to fall at a given time. During the night, in place of this method of signalling, a prominently displayed light was extinguished. For the general public a cannon was fired daily at noon.

With the electric telegraph network rapidly expanding, it became possible to pass time-signals through Post Office and Railway telegraph channels and use these signals to operate time-balls and sig-

nal lights in other parts of New Zealand. By 1918, regular Observatory time-signals were being received by 2400 telegraphic stations throughout the country.

Visual time signalling has been discontinued in New Zealand, but citizens of Sydney can still check their time from the dropping of the time-ball on the Sydney Observatory at 1 p.m. Here in New Zealand, the Lyttelton Maritime Association has set itself the task of restoring and once more putting into operation, the historic Time-Ball Station at Lyttelton.

Once wireless became established, the Observatory was able to compare our local time with that of other countries and to arrange for the transmission of signals by Post Office Coast Radio Stations. In 1916 a time-signal was successfully sent to the Antarctic exploration ship "Aurora" from the Awarua Radio Station, and in June of the same year a time-signal was sent from the Awanui Radio Station to Tahiti. This signal, accurate to 1/20 second, was used to determine, with greater accuracy than previously, the geographical position of Tahiti.

By 1919, almost every steamer, when approaching New Zealand, was requesting radio time-signals and, although a regular service was not in being, many transmissions had been made by the Post Office Stations at Awanui on a wavelength of 2000 metres, and at Wellington on 600 metres.

In December 1919, application was made by the shipping companies for a regular transmission of time-signals. A line was installed between the Observatory and Wellington Radio and the regular transmission of time-signals commenced on 18 June, 1920. By 1922 these signals, transmitted by the powerful Telefunken quenched-spark apparatus of Wellington Radio on Mt. Etako, were being received at distances of up to 4000 miles.

For the general public, radio time-signals were first broadcast from station 2YA Wellington in 1930, and on 1 June 1938 the now familiar form of British "six-pip" time-signals was introduced.

Today, the Time Service continues to determine and distribute time for civil, departmental, and scientific purposes, such as the provision of time-signals for the operation of the New Zealand Seismographic Network.

The Standard Clocks

Originally, time was kept by high-quality mechanical clocks which were regulated by adjusting small weights on the pendulums. Correct time was derived from observations of stars and, when visibility prevented this, the weight changes were calculated from measurements of temperature and pressure. These clocks, now over 100 years old, are still in operation and can be kept within an accuracy of 1/20 second. Accuracy was later improved by the installation of vacuum-enclosed pendulums kept at a constant temperature.

The introduction of the quartz crystal oscillator further increased accuracy, and advances in the field of electronics paved the way for a modern New Zealand built timing-system which was put into operation in 1962. This system, with subsequent improvement, is in current use. A replacement time-signal transmitter, embodying recently developed circuitry, is being assembled at the Observatory.

A temperature-controlled room in the basement of the Observatory contains three quartz-oscillator crystals, carefully protected from external shocks, and each generating 100,000 electrical vibrations a second. Additional quartz-oscillator units with stabilities exceeding one part in ten thousand million have recently been installed. Only one controls the Time Service; the others are needed to check the behaviour of the first and to provide standbys.

The high-frequency vibrations from the control oscillator are processed electronically to provide 1000 pulses each second, and these are fed to a transmitter that counts and groups them to produce hundredths of seconds, tenths, seconds, minutes and hours. The apparatus is triplicated and interconnected, so that an error of one millisecond or more in any one "clock" will raise an alarm and switch to an alternative electronic system. Should all electronics fail, pendulum clocks function as a last reserve. Time-signals, call-signs and morse-signals are all generated electronically and automatically sent at programmed times to their several destinations.

Time-Signals

The most widely used time-signals are those broadcast by the New Zealand Broadcasting Corporation. They are accurate to within a few thousandths of a second, which is the time taken by the radio waves to reach their points of reception. These signals are transmitted some 20 times throughout the day and consist of six "pips" at one second intervals, the beginning of the last pip marking the exact minute. When a pip marks the hour, its length is doubled.

The signals are received at each of the 30 stations of the seismograph network and are automatically impressed on the records. For navigational and scientific purposes a 5-minute transmission of pips-each-second, with a long pip at each minute, is broadcast by Wellington Radio, the Post Office Coast Station, on a frequency of 417 kilohertz. These signals terminate at exactly 11 a.m. (23 hours, Greenwich) and are transmitted with the Time Service Callsign, ZMO.

Post Offices, the Railways, the New Zealand Broadcasting Corporation, the Carter Observatory, Wellington Radio, and the Meteorological Office, receive time-signals by landline. Wellington's government clock on the large wooden Government Building in Lambton Quay is wired to the Observatory and kept within ten seconds of true time. The Wellington wharf siren is operated upon the receipt of a signal from the system.

A cathode ray oscilloscope serves to compare all manner of time-signals which electronic counters measure to 1/1000 second. Regular measurements are taken of the behaviour of the Time Service quartz oscillators and those of the Post Office, which are located at Makara and wired through to the Observatory. Signals from Rugby, England, are combined with locally produced signals and any difference is displayed on a continuously recording chart. Signals received from America, Australia, Hawaii, Japan and elsewhere are regularly measured to a millisecond, and New Zealand time compared with them.

Stations and Frequencies (kilohertz)

1 a.m. - 5 a.m. time-signals:—

1YA	2YA	3YA	4YA	4YW
760	570	690	780	640

Every second week, stations 1YA and 3YA are silent from 11.15 p.m. Sunday until 6 a.m. Monday. On the alternate weeks, 2YA, 4YA and 4YW are silent.

6 a.m. - 11 p.m. time-signals:—

1YA	1YW	1YZ	1YX	1YE	1YK
760	1140	860	830	1050	1010
2YA	2YW	2YZ	2YX		
570	1180	630	1150		
3YA	3YW	3YZ			
690	1460	920			
4YA	4YW*	4YZ			
780	640	720			

2YB (during parliamentary broadcasts)
800

On Saturday afternoons, during the winter-sports broadcasts, stations outside Wellington may not be able to transmit the 2 p.m. and 4 p.m. time-signals.

* 4YW: — Time transmissions from 4YW are limited to:—

Weekdays	9 a.m. to 2 p.m.
Saturdays	9 a.m. to 12 noon
Sundays	11 a.m. to 12 noon

Radio New Zealand

The transmission hours of the Radio New Zealand short-wave station are from 5 a.m. to 11.40 p.m., and the time-signals transmitted are identical to those of the National Programme, with the exception of the 10 p.m. signals which are always clear of programme.

Additional Transmissions

When required for specific purposes, time-signals other than those listed are sometimes broadcast. This has been done to help in the accurate timing of astronomical observations, such as eclipses, occultation, and transits of planets, and also to provide additional timing during the recording of after-shock sequences following major earthquakes.

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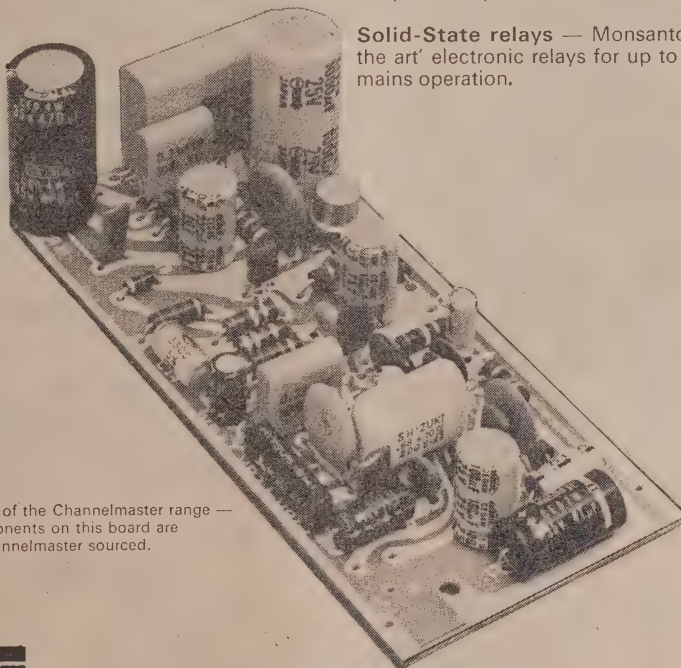
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Standard Time

The time shown by the Observatory clocks is "Universal Time" or "Greenwich Mean Time". Ordinary New Zealand civil time is exactly 12 hours ahead of it, but this was not always so.

Each place in New Zealand once kept its own time, and these differed by as much as 34 minutes. Improvements in communications—notably the electric telegraph—made these differences inconvenient, so in 1868 the Government passed a Mean Time Act which established a standard time meridian for the colony. This gave us a time of 11 hours and 30 minutes ahead of Greenwich Mean Time, and known as New Zealand Mean Time. It was used until 1927 when the clocks were advanced one hour for the summer period. This daylight-saving measure was not well received, so in the following year the advance was reduced to half an hour. After the advance in 1941 the clocks were not put back for the winter. Since this was equivalent to adopting a new standard time meridian, the position was regularised by the New Zealand Standard Time Act of 1945. Summer time is not observed, but the New Zealand Standard Time we now use incorporates half an hour of "built-in" daylight-saving all the year round.

International Date Line

The International Date Line is a modification of the 180th meridian, which passes some 100 miles to the east of Gisborne. It is drawn so as to avoid land, and to include associated Pacific Island groups on the same side of the line.

When this line is crossed on a westerly course, the date must be advanced one day, and when it is crossed on an easterly course the date must be put back one day.

Leap Year and Leap Seconds

Days depend on the spinning of the earth, and years on its movement about the Sun. Seconds, in their turn, depend on counting atomic vibrations. These things do not always keep in step, and so from time to time "leap years" and "leap seconds" are used to make the adjustment.

Leap years contain an extra day, February 29, which is inserted whenever the year can be divided by four, except at the change of a century, when the year must be divisible by 400. The year 2000 AD will therefore be a leap year.

There is no regular rule about leap seconds. They are introduced on December 31 or June 30, if astronomers' measurements show that they are necessary.

Units of Time

Some of our units of time are natural, and some are artificial. The *second*, for example, is the time taken for a caesium atom to vibrate 9,192,631,770 times, the *year* is the time for the Earth to go round the Sun, the *day*, the time for the Earth to spin once, and the *month*, for the Moon to circle the Earth.

The *hour*, the *minute*, and the *week*, on the

other hand, are artificial units formed by counting up natural ones.

Administration

The New Zealand Time Service forms part of the Geophysics Division of the New Zealand Department of Scientific and Industrial Research. Enquiries should be addressed to:—

The Officer-in-Charge,
New Zealand Time Service,
Geophysics Division, D.S.I.R.,
P.O. Box 8005,
WELLINGTON.

Note: The Observatory's function is scientific and there is no public time-answering service; the broadcast time-pips provide the main public facility.

Times Around the World

A list of standard times is given on the following pages. The hours are given as "hours behind New Zealand", unless shown otherwise.

Note: New Zealand is planning the introduction of daylight saving. If and when New Zealand clocks are put forward from Standard Time, the amount of advance would be added to the times here listed as "Hours behind New Zealand".

Summer Time

The annotation * indicates that the time of a territory may advance by one hour during its summer.

Winter Time

The annotation *** indicates that the time of a territory may advance during its winter.

Local Differences

The annotation (X) indicates that the time shown does not apply to all parts of the territory.

When more than one time is listed for an area, a fair estimate as to how the times are zoned may be made from a study of its map.

Telecontrol Apparatus

The following frequencies are available for the operation of telecontrol apparatus. Transmissions on these frequencies must be maintained within the tolerances specified.

Frequency	Tolerance
13560 kHz/z	± 0.05%
27120 kHz/z	± 0.6%
35.7 MHz/z	± 0.75%
2450 MHz/z	± 50 MHz
5800 MHz/z	± 75 MHz
22125 MHz/z	± 125 MHz



"BARLOW-WADLEY" XCR-30 crystal controlled portable communications receiver. 500 kHz to 30 MHz in 30 bands. Electronic band-switching, incorporates the WADLEY drift cancelling loop design. Direct dialling in 10 kHz markings over the full frequency range. . Sensitivity, stability, and performance up to standards usually SSB/CW/AM reception. Ceramic filters for SSB or AM selectivity found only in receivers costing many times more than the XCR-30. Price \$255.00. For full details and demonstrations contact your sales and service agents.

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Country or State	Hours Behind New Zealand	Country or State	Hours Behind New Zealand
Aden (Southern Yemen)	9	Canton Island	23
Admiralty Islands	7½	Cape Verde Islands	14
Afghanistan	11	CAROLINE ISLANDS	0
Albania *	23	east of 160°	2
Aleutian Islands	12	west of 160°	1
Algeria	4	Truk, Ponape	4
Alor	8	Casey (Antarctica)	17
Amirante Island	7	Cayman Islands	11
Amsterdam Island	6½	Central Africa Republic	6½
Andaman Islands	10	Ceylon (Sri Lanka)	11
Anglo Egyptian Sudan	11	Chad	7
Angola (Portuguese West Africa)	16	Chagos Archipelago	12
Annoebon Island	8	Channel Islands *	16
Antilles	15	Chatham Islands	4
Arabian Emirates	3	(ahead of New Zealand)	16
Argentina	16	Chile *	4
Aru Island	12	China (X)	22
Aruba	2	Christmas Island (Pacific Ocean)	5
Ascension Island	2½	Christmas Island (Indian Ocean)	19
AUSTRALIA:	5½	Clipperton Island	17
Australian Capital Territory *	2	Cocos-Keeling	9
Broken Hill *	2½	Colombia	11
New South Wales * (except Broken Hill) *	2½	Comoro Islands	22½
Northern Territory	2	Congo (Brazzaville)	18
Queensland	2½	Cook Islands	10
South Australia *	2	Corsica	7
Tasmania *	2	Costa Rica	17
Victoria *	2	Crete	16
Western Australia	22	Crozet Islands	10
Austral Islands	11	Cuba *	10
Austria	13	Curacao	10
Azores	17	Cyprus	11
Bahamas *	9	Cyrenacia	11
Bahrain	11	Czechoslovakia	11
Balearic Islands	5	Dahomey Republic (West Africa)	11
Bali	5	Denmark	17
Banka	6	Dominican Republic *** (½ hour)	15½
Bangladesh	16	Dutch Guiana (Suriname)	19
Barbados	10	Easter Island (I. de Pascua)	24
Basutoland	10	Eniwetok Islands	17
Bechuanaland (Botswana)	11	Ecuador	0
Belgium	5	Egypt *	18
Belitong	16	Ellice Islands	11
Bermuda	16	El Salvador	9
Bolivia	4	Equatorial Guinea	9
Borneo, Indonesian	16	Estonia	16
Bonaire	10	Ethiopia	22
Botswana (Bechuanaland)	11	Falkland Islands (Port Stanley *)	12
Brazzaville	15	Fanning Island	14
Brazil *	17	Faeroes, The	11
BRAZIL *	16	Fernando de Noronha	0
Eastern Territory of Acre	16	Fernando Poo	10
Western	15	Fiji	4
British Antarctic Territory (X)	20	Finland	11
British Guiana	18	Formosa * (Tai-wan *)	7
British Honduras *** (½ hour)	2	France	15
British New Guinea	4	Franz Josef Land	16
British North Borneo	9	French Afars and Issas	12
British Somaliland	4	French Guiana	14
Brunei	10	Friendly Islands (Tonga)	11
Bulgaria	5½	Gabon	17
Burma	10	Galapagos Islands	12
Burundi	17	Gambia	21
Caicos Island	5	Gambier Islands	11
Cambodia	11	Germany	12
Cameroon Republic	0	Ghana	12
Campbell Island	19	Gibraltar *	0
CANADA:	20	Gilbert and Ellice Islands	0
Alberta *	16	Gough Island	15
British Columbia *	18	Graham Land	12
Labrador *	18	Great Britain	10
Manitoba *	16½	Greece	14
New Brunswick *	16	Greenland:	14
Newfoundland *	16	GREENLAND:	15
Northwest Territories *	16	Scoresby Sound	16
east of long. 68	17	Angmagssalik and West Coast	12
long. 68-85	18	Thule area	16
long. 85-102	19	Greenwich Mean Time	16
west of long. 102	16	Grenada *	16
Nova Scotia *	17	Guadeloupe	2
Ontario *	18	Guam	18
east of long. 90	16	Guatemala	15½
west of long. 90	16	Guiana — Dutch	16
Prince Edward Island *	16	French	12
Quebec *	17	Guinea, Republic of	15½
east of long. 63	16	Guyana, Republic of	7
west of long. 63	17	Gwadar	17
Saskatchewan *	18	Haiti	11
east of long. 106	19	Holland	18
west of long. 106	20	Honduras	18
Yukon	21	Honduras British *** (½ hour)	4
east of long. 138	11	Hong Kong *	12
west of long. 138	12	Hungary	11
Canary Islands	12	Iceland	12
		Ifni	12



FUKUYAMA ELECTRONICS CO LTD of JAPAN PRESENT THE MULTI 8

2 metre FM transceiver. Compact unit for operation on either 12 volts DC or 230 volts mains, fully self contained. 23 channels plus provision for accessory VFO. Frequency coverage 144 to 148 MHz.

Power output 1, 3 or 10 watts. Push to talk or VOX operation. Squelch, meter indication of power out, received signal strength, calibration of receiver or transmitter frequency. Crystal may be changed and trimmed to frequency without removal of set from case — inspection plate provided. Built in speaker. Full SWR protection. Uses 2 IC, 1 FET, 1 SCR, 31 transistors, 27 diodes. Supplied with PTT dynamic microphone, all plugs, mobile bracket, AC and DC power cords. Operating manual.

To complete the installation we have home station antenna . . . MORROW 5 element Yagi, 6 over 6 skeleton slot, 11 element CO-Linear Yagi. All with matching devices, mounting suitable for either vertical or horizontal polarization. For the mobile we can supply HUSTLER CO-Linear and 5/8 vertical styles.

Write for full details of the FDK Multi 8, the FDK Multi 7 and the new FDK Multi 2000 for SSB/CW/FM on the 2 metre band, synthesised transceiver. Remote VFO suitable for all models of FDK transceiver.

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Country or State	Hours Behind New Zealand	Country or State	Hours Behind New Zealand
India	6½	North Vietnam	5
Indonesia, Republic of		Norway *	11
Bali, Bangka, Billiton, Java, Lombok, Madura, Sumatra	5	Novaya Zemlya	7
Borneo, Celebes, Flores, Sumba, Sumbawa, Timor	4	Novosibirskiy Ostrova	2
Aru, Kei, Moluccas, Tanimbar, West Irian	3	Ocean Island	11
Iran (Persia)	8½	Okinawa	3
Iraq	9	Oman (Masira, Muscat, Salala)	8
Ireland, Northern *	12	Pakistan	7
Irish Republic *	12	Panama	17
Israel	10	Papua	2
Italy *	11	Paraguay *	16
Ivory Coast	12	Perim Island	9
Jamaica	17	Persia	8½
Jan Mayen Island	13	Peru	17
Japan	3	Pescadores Islands *	4
Java	5	Phillipine Republic	4
Johnston Island	22	Phoenix Islands	23
Jordan *	10	Pitcairn Island	20½
Juan Fernandez Islands	16	Poland *	11
Kamaran Island	9	Portugal	11
Kamchatka Peninsula	0	Portuguese	
Kenya	9	East Africa	10
Kerguelen	7	Guinea	13
Kermadecs (New Zealand)	0	West Africa	11
Khmer Republic	5	Pribilof Islands	23
Komandorskiye Ostrova	12	Principe	12
Korea	3	Puerto Rico	16
Kurile Islands	1	Qatar	8
Kuwait	9	Rapa Island	22
Kwajalein Islands	24	Raoul Island (New Zealand)	0
Laccadive Islands	6½	Rarotonga	22½
Ladrone Islands	2	Reunion	10
Laos	5	Rhodesia	12
Latvia	9	Rio de Oro	10
Lebanon *	10	Robinson Crusoe Island	16
Leeward Islands	16	Rodriguez Island	8
Lesotho (Basutoland)	10	Romania	10
Liberia	12	Ross Dependency (New Zealand)	0
Libya	10	Rotuma Island	0
Liechtenstein	11	Rwanda	10
Line Island	22	Ryukyu Islands	3
Lithuania	9	Sabah	4
Lord Howe Island	1½	Saint Helena	12
Low Archipelago	22	Saint Paul Island	7
Loyalty Islands	1	Saint Pierre and Miquelon	15
Luxembourg	11	Salvador, El	18
Macao *	4	Sakhalin	23
Madagascar	12	Samoa	1
Madeira	9	San Felix Islands	16
Madura	7	Santa Cruz	1
Malagasy Republic	9	Sao Tome	12
Malawi	10	Sarawak	4
Malaysia		Sardinia	11
Malaya	4½	Saudi Arabia (X)	9
Sabah, Sarawak	4	(See notes at the end of this section)	
Maldiv Republic	7	Schouten Islands	3
Mali	12	Scott Base, Antarctica (New Zealand)	0
Malta	11	Senegal	12
Manchuria	3	Seychelles	8
Mariana Islands	2	Siam	5
Marquesas Islands	21½	Sicily	11
Marshall Islands (X)	16	Sierra Leone	12
Martinique	0	Singapore	22½
Mauritius	8	Society Islands	9
Mauritania	12	Socotra	1
Mexico (X)		Solomon Islands (Honiara)	9
Main portion	18	Somali Republic	10
Lower California	19, 20	South Africa, Republic of	14
Midway Island	23	South Georgia (Antarctica)	9
Miquelon	23	Southern Yemen	4
Monaco	15	South Vietnam	10
Mongolia		South West Africa	11
East	3	Spain	12
Central	4	Spanish Sahara	11
West	5	Spitbergen	10
Morocco *	12	Sudan Republic *	10
Mozambique	10	Surinam (Dutch Guiana)	15½
Muscat and Oman	8	Svalbard	11
Nauru	½	Swaziland	10
Netherlands, The	11	Sweden	11
New Britain	2	Switzerland	11
New Caledonia	1	Syrian Arab Republic *	10
New Guinea (Australian)	2	Tahiti	22
New Guinea West	3	Taiwan * (Formosa)	12
New Hebrides	1	Tangier	4
New Ireland	2	Tanzania	9
Nicaragua	18	Thailand (Siam)	5
Nicobar Islands	6½	Timor	4
Niger	11	Tobago	16
Nigeria	11	Togo Republic	12
Niue Island	23	Tokelau Islands	23
Norfolk Island	½	Tonga	1
North Borneo	4	Trinidad	16
		Trinidad Island	14
		Tripolitania	10
			(ahead of New Zealand)

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Aerial Rods	Nippon	Thermistors	Ohizumi
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Batteries — Rechargeable	Sanyo	Tuning Indicators	Toyo Musen
Capacitors: Electrolytic	Elna	Varistors	Ohizumi
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Polystyrene	Suflex		
Tuning, Trim—TX. RX	Jackson		
Coil Parts	Neosid		
Xtals, Filters	Nikko Denshi		
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Heatsink	Jermyn	Scopes	Dumont, Eico, Scopex
Insulators	Jackson		
Panel Meters	Sew	Generators	Eico
Neon Indictors	McM-Reid	Precision Pots	Beckman
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Semiconductors	Texas Instruments	Digital Panel Meters	Datel Systems
Speakers & Enclosures	David J. Reid	Data Loggers	Datel Systems
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Toggle	NKK	Channel Recorders	Atlon-Tol Industries
Thumbwheel	Cosmocord	Digital Multimeters	Data Precision
Proximity	Sansei	Kitset Audio Amplifiers	David J. Reid

INSTRUMENTS

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Branches throughout New Zealand

Country or State	Hours Behind New Zealand
Tristan de Cunha	12
Trucial Oman (Sharja)	8
Truk	1
Tuamotu Archipelago	22
Tubai Islands	22
Tunisia *	11
Turkey *	10
Turks and Caicos Islands	17
Uganda	9
United Arab Republic *	10
UNITED STATES OF AMERICA:	
Eastern Standard Time	17
Central Standard Time	18
Mountain Standard Time	19
Pacific Standard Time	20
Alabama *	18
Alaska *	
east of 137°	20
long. 137° - 141°	21
long. 141° - 161°	22
long. 161° - 172½°	23
Aleutian Islands	23
Arizona	19
Arkansas *	18
California *	20
Colorado *	19
Connecticut *	17
Delaware *	17
District of Columbia *	17
Florida * (X)	17
Georgia *	17
Hawaii	22
Idaho * (X)	19
Illinois *	18
Indiana (X)	17
Iowa *	18
Kansas * (X)	18
Kentucky * (X)	17
Louisiana	18
Maine *	17
Maryland *	17
Massachusetts *	17
Michigan	18
Minnesota	18
Mississippi *	18
Missouri	19
Montana *	18
Nebraska * (X)	18
Nevada *	20
New Hampshire *	17
New Jersey	17
New Mexico *	19
New York *	17
North Carolina *	17
North Dakota * (X)	18
Ohio *	17
Oklahoma *	18
Oregon * (X)	20
Pennsylvania *	17
Rhode Island *	17
South Carolina *	17
South Dakota *	
eastern part	18
western part	19
Tennessee * (X)	18
Texas *	18
Utah * (X)	19
Vermont *	17
Virginia *	17
Washington D.C. *	17
Washington *	20
West Virginia *	17
Wisconsin *	18
Wyoming *	19
Universal Time	12
Upper Volta	12
Uruguay	15
U.S.S.R.: (X)	
west of 40°	
(Kiyev, Leningrad, Moscow, Odessa)	9
40° - 52½°	
(Arkhangelsk, Gorkiy, Tbilisi, Volgograd)	8
52½° - 67½°	
(Chelyabinsk, Sverdlovsk)	7
67½° - 82½°	
(Alma-Ata, Omsk, Tashkent)	6
82½° - 97½°	
(Novosibirsk, Tomsk)	5
97½° - 112½°	
(Irkutsk)	4
112½° - 127½°	
(Yatutsk)	3

127½° - 142½°		
(Okhotsk, Vladivostok)		2
142½° - 157½°		
(Magadan)		1
157½° - 172½°		
(Petropavlosk)		0
east of 172½°		
(Anadyr)	(ahead of New Zealand)	1
Venezuela		16
Vietnam North		5
Vietnam South		4
Virgin Islands		16
Vrangelya, Ostrov	(ahead of New Zealand)	1
Wake Island		0
Western Samoa		23
Windward Islands		16
Wrangell Island	(ahead of New Zealand)	1
Yugoslavia		11
Zaire		
Kinshasa, East		10
Kinshasa, West		11
Zambia		10



The information in this list undergoes several changes during each year and in some places the current system is on trial. Sometimes a Local Mean Time is kept which differs from the Legal Standard Time — in parts of South Arabia the clocks are set to 00 hrs at sunset each day.

Where summer time is observed in the U.S.A., clocks are generally advanced by one hour from the last Sunday in April until the last Sunday in October.

Note: As an emergency measure daylight saving is being observed all year round in the U.S.A., for a 2 year period commencing 6 January 1974.

In Great Britain, Northern Ireland, the Channel Islands and the Irish Republic, clocks are generally advanced by one hour from the day following the third Saturday in March until the fourth Saturday in October.

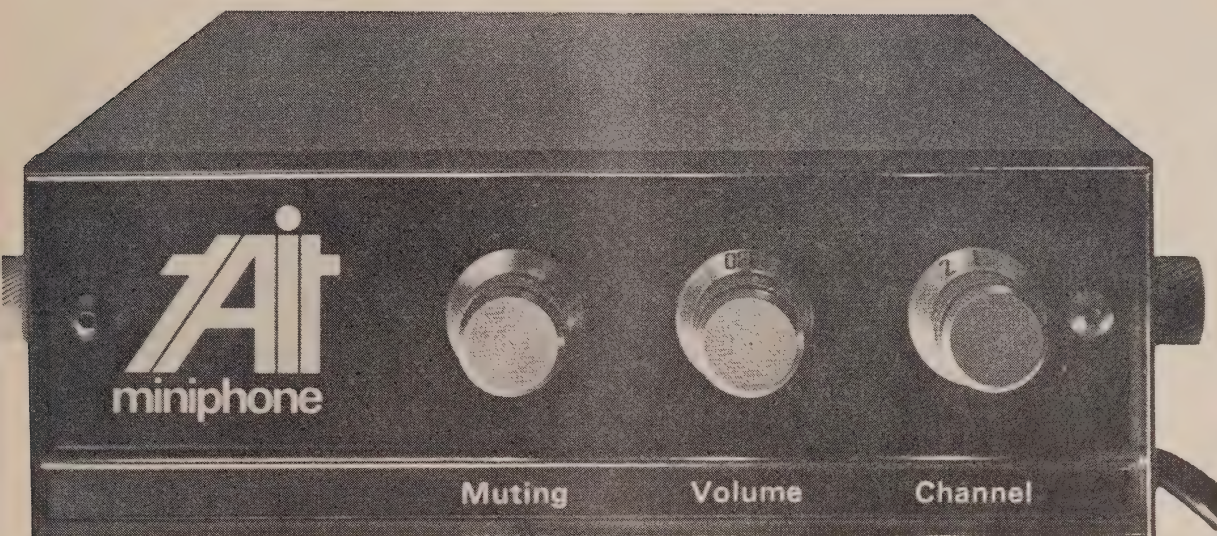
In Australia, the advancing of clocks is determined by proclamation each year. In 1973 the clocks in South Australia, Victoria, New South Wales and Tasmania were advanced by one hour on 26th October and will be restored to Standard Time on the first Saturday in March, 1974.

J. F. H. Harper,

New Zealand Time Service.

1st October 1973.

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*Unrivalled in
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in size,
in versatility
and
in performance —*

*For
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CHRISTCHURCH.**

Standard Frequency Transmissions . . .

WWV & WWVH

The National Bureau of Standards broadcasts standard time and frequency transmissions continuously through stations WWV and WWVH.

Station WWV, located at Fort Collins, Colorado, broadcasts on the radio frequencies of 2.5, 5, 10, 15, 20 and 25 MHz. Station WWVH, Kauai, Hawaii, broadcasts on the radio frequencies of 2.5, 5, 10, 15 and 20 MHz.

Both stations are controlled by caesium atomic oscillators. The frequencies are stable to better than 2 parts in 10^{11} at all times compared with the atomic standards maintained at the N.B.S. Boulder Laboratories. Changes in the propagation medium cause frequency changes which are several orders greater than the uncertainties described above.

STANDARD TIME SIGNALS

Seconds pulses are transmitted continuously, even during tones and announcements, and are derived from the same oscillator which generates the carrier frequency. Each minute, except the first of the hour begins with an 800 millisecond tone of 1,000 Hz at WWV and 1,200 Hz at WWVH. The first minute of the hour begins with an 800 millisecond tone of 1,500 Hz from both stations.

The use of Greenwich Mean Time (GMT) as a synonym for Universal Time (UT) is now being phased out internationally. As from January 1st, 1974, all time announcements will be referred to in terms of Universal Time. More precisely, the actual reference time scale is the Co-ordinated Universal Time Scale as maintained by the NBS.

The 0 to 24 hours system is used starting with 0000 at longitude zero. The first two figures give the hour and the last two figures give the minutes past the hour when the tone returns. The time announcement refers to the end of an announcement interval, i.e., to the time when the 0.8 second long audio tone begins.

A WWV male voice announcement of Universal Time is given during the last 7.5 seconds of every minute. At 1035 UT, for instance, the voice announcement, given in English is: "At the tone, ten hours, thirty five minutes, Universal Time."

At WWVH a female voice announcement of UT is given during the period 45 seconds to 52.5 seconds after the minute. It should be noted that the voice announcement of WWVH precedes that of WWV by 7.5 seconds. However, the tone markers referred to in both announcements occur simultaneously, although they may not be so received due to propagation effects. The use of a female voice at WWVH and a male voice at WWV assists in distinguishing the two stations.

UNIVERSAL TIME CORRECTIONS

With the use as from the beginning of 1972 of the atomic time scale as the International time scale and because the rate of rotation of the earth is not

By L. SPACKMAN, ZLIAC

constant, differences between mean solar time (UT1) and atomic time will accrue which could in time become inconvenient. (To quote an extreme case, 12 noon on the clock could occur in the middle of the afternoon). It is therefore necessary to make periodic adjustments to the atomic scale so that it roughly approximates mean solar time (UT1), which is still used by astronomers. Therefore, instead of frequent small corrections as in the past, large corrections of one full second will be made at infrequent intervals, which are not expected to average more than once a year and will usually be made on the last day of either June or December. During 1973 an adjustment of one second was made at the end of December so that the atomic time scale now leads UT1 by 13 seconds. The atomic time scale will this, at all times, be within one second of mean solar time. These corrections will be encoded and broadcast once every minute from both stations.

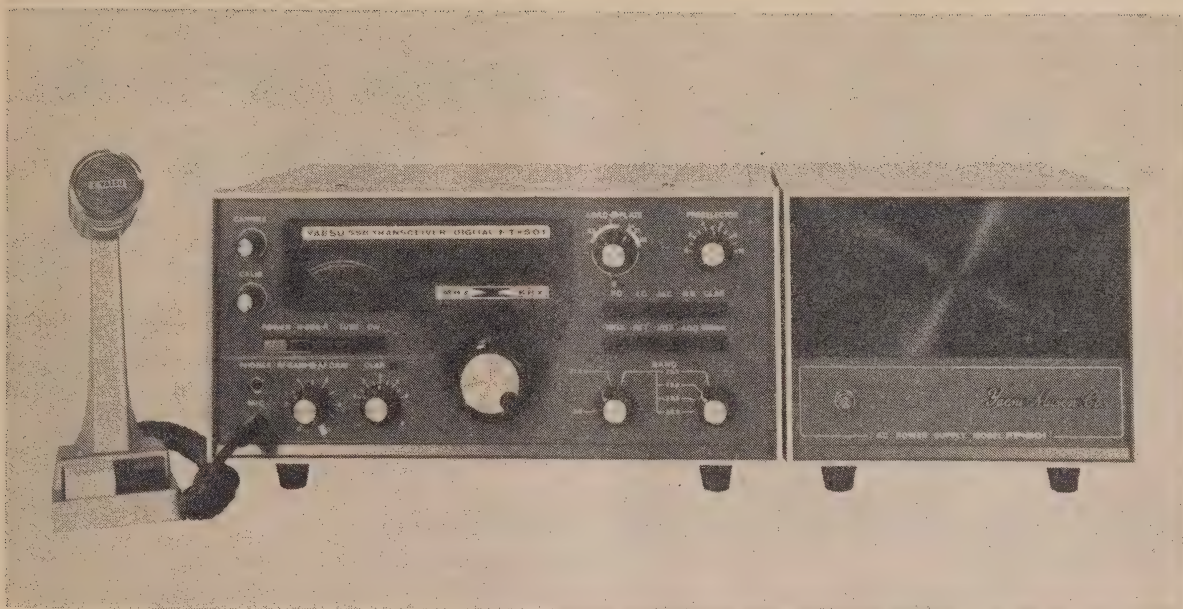
The method of coding UT1 corrections uses a system of double seconds pulses. The first through the seventh seconds pulse, when marked by a double pulse, will indicate a "plus" correction, and from the ninth through the fifteenth a "minus" correction. The eighth second pulse is not used. The amount of correction is determined by counting the number of seconds pulses which are double. For example, if the first, second and third seconds pulses are doubled the UT1 correction is 0.3 second. Or if the ninth, tenth, eleventh, twelfth, thirteenth and fourteenth seconds pulses are doubled, the UT1 correction is "minus" 0.6 second. The UT1 correction is also encoded in the IRIG-H BCD code.

STANDARD AUDIO FREQUENCIES

Standard audio frequencies of 440 Hz, 500 Hz and 600 Hz are broadcast on each radio carrier frequency by the two stations. The duration of each transmitted tone is approximately 45 seconds. A 600 Hz tone is broadcast by WWV during odd minutes and during even minutes by WWVH. A 500 Hz tone is broadcast during alternate periods unless voice announcements or silent periods are scheduled. The 440 Hz tone is broadcast beginning one minute after the hour at WWVH and two minutes after the hour at WWV. The 440 Hz tone is omitted during the first hour of the UTC day to act as a day marker.

No audio tones or special announcements are broadcast during a semi-silent period from either station. The periods are from 45 to 50 minutes after the hour from WWV and from 15 minutes to 20 minutes after the hour at WWVH.

The 29th and 59th seconds pulses are omitted in each minute. Each pulse is preceded by 10 milliseconds of silence and followed by 25 milliseconds of silence.



One of the latest from the Yaesu factory and incorporating the best design features of the earlier Yaesu sets. Hybrid design with valves and transistors used to advantage to give best overall performance.

Brief specifications . . .

Full coverage of all bands 80 to 10 metres.

560 watts PEP input SSB, 430 watts CW.

Single conversion IF system at 9 MHz for minimum spurious signals.

Operation is from 230 volts mains with the matching power supply/speaker unit.

NEW — FT-75-B, power rating now up to 120 watts PEP. Still the same small size. The perfect rig for mobile. Remote VFO and AC and DC supplies are available to allow the widest possible use.

COMING — The YO-100 Monitor scope. Styled to match the FT-100 series but suitable for most YAESU and other rigs.

COMING — FR-101 receiver, styled like the FT-101. Covering all amateur bands 160 to 10 metres plus 11 positions as options between the coverage limits.

COMING — FT-220 transceiver. 2 metre transceiver for FM/SSB/CW. Operation on 230 volts AC or DC 12 volts. Fixed channels and VFO operation.

In addition to the above rigs we can supply all the YAESU range, plus all the accessory items.

The FT-101B, FT-Dx-401, FT-200, FL-Dx-400, FR-Dx-400, these and all the well proved models are available . . . buy on terms, trades accepted as part payment towards your new Yaesu set.

As always with any equipment we sell, it is backed with service. We do not try to make the biggest claims or promises—just this—we will give you a fair deal. This is our promise.

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PROPOGATION & GEOPHYSICAL FORECASTS

A forecast of radio propagation conditions is broadcast in voice during part of every fifteenth minute of each hour from WWV. The announcements are short term forecasts and refer to propagation along paths in the North Atlantic area.

Current geophysical alerts as declared by the World Warning Agency of the International Ursigram and World Days Service are broadcast in voice during the 19th minute of each hour from WWV and during the 46th minute of each hour from WWVH.

ANTENNAS & MODULATION

The broadcasts on 5, 10, 15 and 20 MHz from WWVH are from phased vertical half wave arrays. They are designed and oriented to radiate a cardioid pattern directing maximum gain in a westerly direction. The 2.5 MHz antenna at WWVH and all antennas at WWV are half wave vertical dipoles which radiate omnidirectional patterns.

At WWV and WWVH, double sideband amplitude modulation is employed with 50 per cent modulation on the steady tones, 25 per cent for the IRIG-H code, 100 per cent for seconds pulses and 75 per cent for voice.

VNG

The Australian Post Office experimental Standard Frequency and Time station VNG, Lyndhurst, Victoria is controlled by an atomic source and the accuracy is comparable with standard frequency stations in other parts of the world. As far as New Zealand is concerned it has the advantage of a shorter transmission path. The frequencies used are 4.5, 7.5 and 12 MHz.

The time signals comprise 50 millisecond and 5 millisecond bursts of 1,000 Hz at one second intervals. The minutes are identified by substituting the 5 millisecond pulses for the 50 millisecond bursts towards the end of each minute and omitting the 59th second pulse. During minutes 5, ten and each succeeding five minutes, nine short 5 millisecond pulses are transmitted at the end of each minute. During all other minutes only four short 5 millisecond pulses are transmitted. Announcements in voice are made during minutes 14, 29, 44 and 59.

The 4.5 MHz transmission is from 0945 to 2130 hours UT. The 7.5 MHz transmission is continuous except for a silent period from 2230 to 2245 hours UT. The 12 MHz transmission is from 2145 to 0930 hours UT.

ZLFS

Station ZLFS, operated by the frequency standards section of the Physics and Engineering Laboratory, DSIR, Gracefield, Lower Hutt, N.Z., transmits on a frequency of 2.5 MHz every Wednesday afternoon (excepting public holidays) from 1300 to 1600 hours NZST. The transmission comprises an unmodulated carrier, the call sign being given at the beginning and end of the transmission. For those within ground wave range this provides the most accurate standard frequency transmission available in New Zealand.

OPERATING AIDS

CALLING PRACTICE

- 1—LISTEN first, TIME calls and transmissions carefully.
 - 2—MAKE CQs SHORT. (Insert station call often). (Make directional as needed).
 - 3—SHORT CALLS interrupted by listening periods are most effective.
- SENDING—Adjust speed to radio conditions and operator proficiency. (A steady 12 w.p.m. is superior to higher speeds with repeats!)

R-S-T REPORTING SYSTEM

READABILITY

- 1—Unreadable.
- 2—Barely readable—occasional words distinguishable.
- 3—Readable with considerable difficulty.
- 4—Readable with practically no difficulty.
- 5—Perfectly readable.

SIGNAL STRENGTH

- 1—Faint; signals barely perceptible.
- 2—Very weak signals.
- 3—Weak signals.
- 4—Fair signals.
- 5—Fairly good signals.
- 6—Good signals.
- 7—Moderately strong signals.
- 8—Strong signals.
- 9—Extremely strong signals.

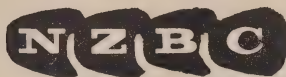
TO NE

- 1—Extremely rough, hissing note.
 - 2—Very rough a.c. note; no trace of musicality.
 - 3—Rough, low-pitched a.c. note; slightly musical.
 - 4—Rather rough a.c. note; moderately musical.
 - 5—Musically modulated note.
 - 6—Modulated note; slight trace of whistle.
 - 7—Near d.c. note; smooth ripple.
 - 8—Good d.c. note; just trace of ripple.
 - 9—Purest d.c. note.
- To indicate crystal characteristics, add letter X; to indicate chirpy signal, add letter C.
- RST? means "What is my report by RST system?"

SIGNAL REPORTS:

- By Voice—Your signals.
Readability..... Strength.....
By Telegraph—Ur sigs RST.....

NEW ZEALAND RADIO & TELEVISION SECTION



RADIO NEW ZEALAND TITAHİ BAY, WELLINGTON

The following is a list of T.V. channels:

—000000—

Channel	Bandwidth	Video	Sound
		Frequency	Frequency
		MHz	MHz
1	44-51 MHz	45.25	50.75
2	54-61 „	55.25	60.75
3	61-68 „	62.25	67.75
4	174-181 „	175.25	180.75
5	181-188 „	182.25	187.75
6	188-195 „	189.25	194.75
7	195-202 „	196.25	201.75
8	202-209 „	203.25	208.75
9	209-216 „	210.25	215.75

Two 7.5 k.w. transmitters operate on frequencies in the 16, 19, 25 and 31 metre bands. The current schedule, as at May, 1973, is as follows:—

RADIO NEW ZEALAND TRANSMISSION SCHEDULE—

5 May 1974 — 31 August 1974

During the May-August seasonal frequency period, Radio New Zealand will transmit as follows. Should frequency changes be necessary, they will be announced during normal transmissions.

(1) To Pacific Islands:

1700 - 1945 GMT —
 ZL7 6.08 MHz — 49.34 metres
 ZL23 9.755 MHz — 30.75 metres
 2000 - 0545 GMT —
 ZL21 15.11 MHz — 19.85 metres
 0600 - 0845 GMT —
 ZL7 6.08 MHz — 49.34 metres
 ZL2 9.54 MHz — 31.45 metres

(2) To Australia:

2000 - 2230 GMT —
 ZL3 11.78 MHz — 25.47 metres
 2245 - 0545 GMT —
 ZL5 17.77 MHz — 16.88 metres
 0900 - 1145 GMT —
 ZL18 9.52 MHz — 31.51 metres
 ZL6 11.705 MHz — 25.63 metres
 (note: ZL5 closes 0000 - 0100 GMT Sundays.)

(3) To Antarctica:

0015 - 0045 GMT —
 ZL4 15.28 MHz — 19.63 metres

Reception reports and comments on the above transmissions will be most welcome to

N.Z.B.C.,
 P.O. Box 98, Wellington.

General Information: T.V. Receivers, Sound I.F. 33.4 MHz, Video 38.9 MHz.



H. O. E. OPERATIONS

MAIN TRANSMITTERS

CALL SIGN	FREQ kHz	MEAN OMNI kW	TX TYPE	EMERG PS	RADIATOR TYPE	SUPPORT HGT (m)	DETAIL	HEIGHT (m) MSL	LOCATION	CO-ORDINATES LAT. SOUTH	LONG. EAST	OBST LIGHT ING	EMERG PS
• IYK	1010	2	2	No	Mast	55	Dual	2	Waipapakauri	39° 02' 48"	173° 14' 38"	No	No
• IZK	1440	2	Dual 1	No	Mast	55	Coupled	2	Waipapakauri	" " "	" " "	No	No
• IYE	1050	2	2	No	Mast	55	Dual	183	Ohaeawai	39° 21' 45"	173° 52' 25"	No	No
IZE	1220	2	Dual 1	No	Mast	55	Coupled	183	Ohaeawai	" " "	" " "	No	No
IZN	970	2	2	No	"	53	Dual -	98	Tikipunga	35° 40' 43"	174° 19' 13"	No	No
IYX	830	2	2	No	"	53	Coupled	98	Tikipunga	" " "	" " "	"	"
IYA	760	20	Dual 10	Yes	"	153	Dual -	15	Henderson	36° 50' 52"	174° 37' 51"	Yes	Yes
IYC	880	10	10	Yes	"	153	Coupled	15	Henderson	" " "	" " "	Yes	Yes
IZB	1070	10	10	No	"	122	Dual -	9	Henderson	36° 50' 38"	174° 37' 55"	Yes	Yes
IZM	1250	2	2	Yes	"	122	Coupled	9	Henderson	" " "	" " "	Yes	Yes
IZH	1310	2	2	Yes	"	53	Dual -	49	Hill Crest	37° 47' 47"	175° 19' 43"	Yes	No
IYW	1140	2	2	Yes	"	53	Coupled	49	Hill Crest	" " "	" " "	Yes	No
IYZ	860	10	10	Yes	"	153	Dual -	29	Paengaroa	37° 48' 54"	176° 24' 47"	No	No
IZD	1000	10	10	Yes	"	153	Coupled	29	Paengaroa	" " "	" " "	No	No
IZC	1350	2	2	No	"	55	"	431	Tihitongae	38° 10' 21"	176° 13' 45"	Yes	No
IZA	1500	2	Dual 1	No	Tower	41	"	423	Taupo	38° 40' 23"	176° 04' 11"	Yes on Req.	No
IZO	1420	2	Dual 1	No	Mast	55	"	259	Wiltzdown	38° 09' 47"	175° 47' 25"	No	No
IZT	1390	0.1	0.1	No	"	21	"	366	Turangi	38° 58' 50"	175° 47' 46"	No	No
IZU	1520	1	1	No	Tower	41	"	167	Tamarunui	38° 53' 15"	175° 15' 30"	Yes on Req.	No
2ZG	1060	2	2	Yes	Mast	53	Dual	15	Wainui	38° 41' 44"	178° 03' 45"	Yes	Yes
2YW	1180	2	Dual 1	Yes	"	53	Coupled	15	Wainui	" " "	" " "	Yes	Yes
2YZ	630	20	Dual 10	Yes	"	88	Bi-direct	53	Opapa	39° 47' 47"	175° 40' 17"	No	No
							ional		Opapa	39° 47' 51"	176° 40' 23"	No	No
2ZC	1280	2	2	No	Tower	41	"	15	Pakowhai	39° 33' 46"	176° 51' 57"	Yes on Req.	No
2ZP	1370	2	2	No	Mast	53	"	8	Bell Block	39° 02' 28"	174° 07' 38"	Yes	No
2ZW	1200	2	2	Yes	"	55	"	61	Kaitoke	39° 57' 49"	175° 04' 41"	Yes	Yes
2ZA	940	2	2	No	"	53	"	20	Kairanga	40° 20' 37"	175° 34' 12"	Yes	No
2ZD	840	2	2	Yes	Mast	55	"	137	Waingaroa	40° 58' 00"	175° 35' 00"	Yes on Req.	Yes
2YA	570	100	Dual 50	Yes	"	218	Dual -	67	Titahi Bay	41° 05' 47"	174° 50' 33"	Yes	Yes
2YC	660	60	60	Yes	"	218	Coupled	67	"	" " "	" " "	Yes	Yes
2YB	800	20	Dual 10	Yes	(Mast	122	Dual -	66	"	41° 05' 41"	174° 50' 58"	Yes	Yes
2ZB	980	20	Dual 10	Yes	"	122	Coupled	66	"	" " "	" " "	Yes	Yes
2ZH	1130	2	2	Yes	Towers	47	T	195	Mt. Victoria	41° 0' 02"	174° 50' 49"	No	No
										41° 17' 44"	174° 47' 45"	Yes Nth	Yes
										41° 17' 41"	174° 47' 42"	Tower	
2ZN	1340	2	2	No	Mast	53	Dual	12	Stoke	41° 19' 49"	173° 12' 50"	Yes	No
2YX	1150	1	1	No	"	53	Coupled	40	"	41° 19' 49"	173° 12' 50"	Yes	No
2ZE	1540	1	1	Yes	Tower	41	"	9	Blenheim	41° 31' 03"	173° 57' 33"	Yes	Yes
† 2ZH	1560	2	Dual 2	No	"	41	"	134	Normanby	39° 31' 23"	174° 18' 17"	Yes	No
3YA	690	20	Dual 10	Yes	Towers	91	"	Nth. 223	Gebbies Pass	43° 41' 39"	172° 38' 37"	No	No
						91	"	Sth. 240	"	43° 41' 46"	172° 38' 35"	No	No
3YC	960	10	10	No	(Mast	122	Dual -	193	"	43° 41' 46"	172° 38' 47"	No	Yes
3ZB	1100	10	10	No	"	122	Coupled	193	"	" " "	" " "	No	Yes
3ZH	1400	2	Dual 1	No	Tower	31	Unipole	23	Halswell	43° 33' 38"	172° 34' 48"	Yes	No
3ZC	1160	2	2	Yes	Mast	53	"	10	Washdyke	44° 20' 57"	171° 15' 41"	Yes	No
3ZD	1550	0.1	0.1	No	Mast	27.4	"	470	Twizel	44° 14' 55"	170° 05' 27"	No	No
3YZ	920	10	10	Yes	(Mast	153	Dual	32	Kumara	43° 34' 29"	171° 08' 32"	No	No
3ZA	750	2	Dual 1	Yes 1kW only	"	153	Coupled	32	"	" " "	" " "	No	No
3YW	1460	2	Dual 1	No	Tower	41	"	50	Cape Foulwind	41° 51' 06"	171° 27' 56"	No	No
4YA	780	20	Dual 10	Yes	Mast	153	"	343	Highcliff	45° 53' 13"	170° 35' 40"	Yes	No
4YC	900	10	10	No	(Mast	122	Dual	278	"	45° 53' 04"	170° 35' 13"	Yes	No
4ZB	1040	10	10	No	"	122	Coupled	278	"	" " "	" " "	Yes	No
4YW	640	2	Dual 1	No	"	107	"	308	Alexandri	45° 09' 52"	169° 23' 34"	Yes on Req.	No
4YZ	720	20	Dual 10	Yes	(Mast	98	"	61	Dacre	46° 19' 13"	168° 37' 16"	No	Yes
4ZA	820	10	10	Yes	"	"	Coupled	61	"	" " "	" " "	No	Yes

Correct as at 31 December 1973

EMERGENCY TRANSMITTER

STUDIO

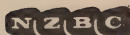
LOCATION	ERP kW	EMERG PS	LOCATION	EMERG PS	OPERATING HOURS NZST			CALL SIGN
					MONDAY-FRIDAY	SATURDAY	SUNDAY	
Rust Lane Whangare	0.1	Yes	Rust Lane Whangarei	Yes	0600 - 2315	0600 - 2315	0600 - 2315	1YK
			12N Whangarei Repeater	Yes	0500 - 2305	0500 - 2305	0600 - 2230	1ZK
			Rust Lane Whangarei	Yes	0600 - 2315	0600 - 2315	0600 - 2315	1YE
			12N Whangarei Repeater	Yes	0500 - 2305	0500 - 2305	0600 - 2230	1ZE
			Rust Lane Whangarei	Yes	0600 - 2305	0500 - 2305	0800 - 2230	1ZN
			Rust Lane Whangarei	Yes	0600 - 2315	0600 - 2315	0600 - 2315	1YX
Henderson	2	Yes	Durham St. Auckland	Yes	1700 - 2300	Variable	1500 - 2300	1YA
Henderson	5	Yes	Durham St. Auckland	Yes	0500 - 2400	0500 - 2400	0600 - 2400	1YC
Henderson	0.1	Yes	Durham St. Auckland	Yes	0600 - 2400	0600 - 2400	0900 - 2200	1ZB
Alma St. Hamilton	0.1	Yes	Alma St. Hamilton	Yes	0500 - 2400	0500 - 2400	0700 - 2230	1ZM
Hill Crest	0.5	Yes	Alma St. Hamilton	Yes	0600 - 2315	0600 - 2315	0600 - 2315	1YW
Paengaroa	1	Yes	Arawa St. Rotorua	Yes	0500 - 2315	0600 - 2315	0600 - 2315	1YZ
Paengaroa	1	Yes	Spring St. Tauranga	No	0500 - 2230	0500 - 2305	0730 - 2230	1ZD
Arawa St. Rotorua	0.1	Yes	Arawa St. Rotorua	Yes	0500 - 2230	0500 - 2230	0800 - 2230	1ZC
Grey St. Gisborne	0.25	No	Taupo Wairakei Main H/way	No	0500 - 2315	0500 - 2315	0600 - 2315	1ZA
			Bridge St. Tokoroa	No	0500 - 2315	0500 - 2315	0600 - 2315	1ZO
			12A Repeater	No	0500 - 2315	0500 - 2315	0600 - 2315	1ZT
			Hula St. Taumarunui	No	0500 - 2315	0500 - 2315	0600 - 2315	1ZU
			Grey St. Gisborne	No	0600 - 2305	0600 - 2305	0800 - 2230	2ZG
			Grey St. Gisborne	No	0600 - 2315	0600 - 2315	0600 - 2315	2YG
Dickens St. Napier	0.1	Yes	Dickens St. Napier	No	0600 - 2400	0600 - 2400	0700 - 2230	2YZ
Brougham St. New Plymouth	0.1	Yes	Brougham St. New Plymouth	Yes	0600 - 2305	0600 - 2305	0800 - 2230	2ZP
Guyton St. Wanganui	0.03	No	Guyton St. Wanganui	No	0600 - 2305	0600 - 2305	0800 - 2230	2ZW
George St. Palmerston North	0.1	Yes	George St. Palmerston North	Yes	0600 - 2400	0600 - 2400	0700 - 2230	2ZA
Waingawa	0.1	Yes	Church St. Masterton	Yes	0600 - 2300	0600 - 2230	0800 - 2230	2ZD
Titahi Bay	10	Yes	Bowen St. Wellington	Yes	Continuous *			2YA
			" " "	"	1700 - 2300	Variable	1500 - 2300	2YC
			" " "	"	1400-2300 Tues-Thurs	Variable	1500 - 2300	2YB
			" " "	"	1000-1600 Fri., During Parl./t	Nil	Nil	2ZB
Mt Victoria	0.1	Yes	" " "	"	0600 - 2400	0600 - 2400	0900 - 2200	2ZM
Trafalgar Square	0.1	Yes	Trafalgar Square	Yes	0600 - 2305	0600 - 2305	0800 - 2230	2ZN
			Nat. Prog. Repeater	Yes	0600 - 2135	0600-2315	0600-2315	2YX
			Kinross St. Blenheim	Yes	0600 - 1200	0600 - 1200 & 1800 - 1830	Nil	2ZE
			22P New Plymouth Repeater (Hawera Studio)	Yes	0600 - 2305	1730 - 2305	0800 - 2230	2ZH
			Gloucester St. Christchurch	Yes	Continuous *			3YA
			" " "	Yes	1700 - 2300	Variable	1500 - 2300	3YC
Gebbies Pass	2	Yes	Colombo St. Christchurch	No	0600 - 2400	0600 - 2400	0600 - 2400	3ZB
Gebbies Pass	2	Yes	" " "	No	0600 - 2400	0600 - 2400	0900 - 2200	3ZM
Sophia St. Timaru	0.1	No	Sophia St. Timaru	No	0600 - 2305	0600 - 2305	0800 - 2230	3ZC
Kumara	1	Yes	32C Repeater	No	0600 - 1900	0600 - 1900	0800 - 1900	3ZO
Highcliff	2	Yes	McKay St. Greymouth	Yes	0600 - 2315	0600 - 2315	0600 - 2320	3YZ
			McKay St. Greymouth	Yes	0600 - 1400	0600 - 1700 & 1900 - 2300	0900 - 1200	3ZA
			3YZ 3ZA Greymouth Repeater	Yes	0600 - 2315	0600 - 2315	0600 - 2315	3YW
			Albany St. Dunedin	Yes	Continuous *			4YA
Deveron St. Invercargill	0.5	Yes	" " "	Yes	1700 - 2300	Variable	1500 - 2300	4YC
			" " "	Yes	0600 - 2400	0600 - 2400	0600 - 2400	4ZB
			4YA 4ZB Repeater	Yes	Continuous *			4YW
			Deveron St. Invercargill	Yes	0600 - 2315	0600 - 2315	0600 - 2315	4YZ

* 1 and 3YA close 2315 Sunday - 0600 Monday alternate weeks with 2YA, 4YA and 4YW

† Amended since last issue.

N.B. 2YA closes 2315 Sunday - 0500 Monday

• Commissioned since last issue



H.O.E. OPERATIONS

N.Z.B.C. TELEVISION

TRANSMITTING STATIONS

LOCATION	CHAN NEL	OFF SET kHz	POLAR ISATION	NOM. ERP kW	TRANSMITTER POWER kW	TYPE	EMERG. PS	RADIATOR SUPPORT	SUPPORT HEIGHT (m)
Te Aroha	1	-10	V	100	Dual 10	Transmitter	Yes	Tower	126
Waiatarua	2	-10	H	100	Dual 10	"	Yes	Tower	125
Hikurangi	3	0	H	1	0.5	Translator	No	Tower	38
Kaeo	4	0	H	0.01	0.005	"	No	Pole	8
Ahipara	4	0	H	0.005	0.001	"	No	Mast	7
Takahue	4	0	V	0.0004	0.0003	"	No	Pole	9
Onapere	4	0	H	0.005	0.002	"	No	Pole	9
† Mangonui	4	0	V	0.01	0.005	"	No	Pole	8
† Russell	4	+10	V	0.005	0.005	"	No	Pole	6
Waihou Valley	4	0	V	0.001	0.003	"	No	Pole	6
Horokaka	5	0	H	2	0.5	"	Yes	Tower	35
* Warkworth	5	-10	V	0.02	0.005	"	No	Pole	6
Maungataniwha	6	-0	V	3	0.5	"	No	Tower	38
Whangaruru	6	+10	V	0.01	0.005	"	No	Pole	8
Mt Maunganui	6	0	H	0.001	0.0003	"	No	Pole	10
* Manawhae	6		V	0.05	0.025	"	No	Pole	6
* Rotorua	6		H	0.02	0.01	"	Yes	Pole	9
* Taupo	6		H	0.005	0.005	"	No	Mast	31
• South Kaeo	7	-10	H	0.0003	0.0003	"	No	Pole	9
Parahiaki	7	0	V	0.01	0.003	"	No	Pole	9
Herekino	7	+10	V	0.0003	0.0003	"	No	Pole	9
Broadwood	7	+10	V	0.0005	0.0003	"	No	Pole	9
Waimamaku	7	+10	H	0.006	0.002	"	No	Pole	12
* Kawerau	7		H	0.001	0.001	"	No	Pole	14
Ngunguru	8	-10	V	0.01	0.005	"	No	Pole	10
Kaikau	1	0	H	100	Dual 10	Transmitter	Yes	Tower	122
Mt Murchison	1	+10	V	2.00	0.5	Translator	Yes	Pole	9
Whakapunahe	1	+10	H	10	5.0.	Transmitter	Yes	Tower	65
Mangatarata	2	-10	V	0.05	0.05	"	No	Pole	15
Wharite	2	0	V	100	Dual 10	Transmitter	Yes	Tower	122
Crampians	3	+10	H	5.00	3.0	"	No	Tower	61
* Tapuaeora	3	0	H	0.001	0.001	Translator	No	Pole	9
• Hector	3	-10	H	0.008	0.005	"	No	Pole	12
Tulara	4	0	H	0.1	0.05	Translator	No	Pole	15
Waipiro Bay	4	+10	V	0.001	0.0003	"	No	Pole	9
Tokomaru Bay	4	-10	H	0.005	0.005	"	No	Pole	9
Matawai	4	+10	H	0.01	0.005	"	No	Pole	15
* Mangaoparo	4	0	V	0.0003	0.0001	Repeater	No	Pole	6

† Amended since last issue

• Commissioned since last issue

* Interim Translator

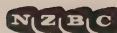
Correct as at 31 December 1973

OBSTRUCTION LIGHTING EMERG. PS		HEIGHT (m) M.S.L.	CO-ORDINATES LAT. SOUTH LONG EAST		STUDIO LOCATION	CALL SIGN	LOCATION
Yes	Yes	944	37° 32' 08"	175° 44' 01"	Shortland St., Auckland	A KTV - 2	Te Aroha
Yes	Yes	391	36° 55' 39"	174° 34' 03"		"	Waiaatarua
Yes	Yes	662	35° 32' 35"	173° 55' 30"		"	Hikurangi
No	No	254	35° 06' 50"	173° 44' 38"		"	Kaeo
No	No	208	35° 10' 25"	173° 08' 52"		"	Ahipara
No	No	228	35° 12' 50"	173° 20' 50"		"	Takahue
No	No	174	35° 32' 30"	173° 23' 08"		"	Omapere
No	No	178	34° 57' 28"	173° 32' 25"		"	Mangonui
No	No	61	35° 13' 30"	174° 08' 00"		"	Russell
No	No	215	39° 16' 40"	173° 44' 10"		"	Waikou Valley
Yes	No	594	35° 52' 20"	174° 08' 08"		"	Horokaka
No	No	77	36° 23' 00"	174° 39' 40"		"	Warkworth
						"	Horokaka
Yes	No	582	35° 10' 03"	173° 32' 00"		"	Maungataniwha
No	No	457	35° 26' 23"	174° 19' 22"		"	Whangaruru
No	No	3	37° 38' 18"	176° 10' 48"		"	Mt Maunganui
No	No	446	37° 57' 30"	176° 40' 20"		"	Manawahe
No	No	759	38° 07' 10"	176° 11' 48"		"	Rotorua
No	No	662	38° 42' 40"	176° 00' 00"		"	Taupo
No	No	305	35° 07' 45"	173° 46' 40"		"	South Kaeo
No	No	242	35° 43' 00"	174° 20' 03"		"	Parahaki
No	No	95	35° 15' 25"	173° 23' 30"		"	Herekino
No	No	128	35° 15' 30"	173° 23' 40"		"	Broadwood
No	No	392	35° 34' 30"	173° 27' 22"		"	Waimanaku
No	No	88	38° 05' 28"	176° 41' 40"		"	Kawerau
No	No	137	35° 36' 45"	174° 31' 10"		"	Ngunguru
Yes	No	425	41° 14' 07"	174° 46' 45"	Waring-Taylor St., Wellington.	WNTV-1	Kaukau
No	No	1471	41° 43' 50"	172° 30' 00"		"	Mt Murchison
Yes	No	943	38° 50' 05"	177° 35' 50"		"	Whakapunake
No	No	728	38° 05' 55"	178° 05' 40"		"	Mangatarala
Yes	Yes	915	40° 15' 20"	175° 51' 30"		"	Wharite
No	No	392	41° 18' 4"	173° 14' 47"		"	Grampians
No	No	523	37° 52' 49"	178° 11' 24"		"	Tapuaeroa
No	No	3	41° 36' 25"	171° 51' 55"		"	Hector
No	No	269	37° 48' 30"	178° 21' 30"		"	Tulara
No	No	233	38° 01' 45"	178° 19' 30"		"	Waipiro Bay
No	No	305	38° 08' 50"	178° 18' 45"		"	Tokomaru Bay
No	No	884	38° 21' 15"	177° 23' 20"		"	Matawai
No	No	462	37° 50' 38"	178° 14' 58"		"	Mangaoparo

Hours of transmission,

Mon - Thurs:	Trade.	0930 - 1315,	Programme.	1400 - 2300
Friday	"	0930 - 1315	"	1400 - 2300
Saturday	"	1200 - 1315	"	1400 - 2400
Sunday	"		"	1400 - 2300

1 of 3



H.O.E. OPERATIONS

N.Z.B.C. TELEVISION

TRANSMITTING

STATIONS

LOCATION	CHAN NEL	OFF SET kHz	POLAR ISATION	NOM. ERP kW	TRANSMITTER POWER kW	TYPE	EMERG PS	RADIATOR SUPPORT	SUPPORT HEIGHT (m)
Muriwai	4	+10	V	0.005	0.003	Translator	No	Pole	11
Poukoko	4	+10	V	0.2	0.05	"	No	Pole	11
Nth Patuaro River	4	0	H	0.0003	0.0003	Repeater	No	Pole	4
Stn Patuaro River	4	0	V	0.0003	0.0003	Translator	No	Pole	4
Wainui Inlet	4	-10	H	0.001	0.0003	Translator	No	Pole	9
Sandy Bay	4	+10	V	0.001	0.0003	Repeater	No	Pole	5
Takaka Hill	4	+10	H	0.75	0.075	Translator	No	Tower	18
Cobb Dam	4	+10	V	0.0003	0.000125	Repeater	No	Pole	2
Delaware Bay	4	-10	H	0.0005	0.0003	Translator	No	Pole	9
Glendun	4	0	V	0.0005	0.0003	"	No	Pole	9
Pokororo	4	0	V	0.002	0.001	"	No	Pole	12
Woodstock	4	-10	H	0.001	0.0003	"	No	Pole	9
Waimarie	4	0	H	0.005	0.001	Translator	No	Pole	12
Karamea	4	-10	V	0.025	0.01	Translator	No	Tower	36
Reefton	4	0	H	0.25	0.1	Translator	Yes	Tower	61
Te Pua	5	-10	V	0.001	0.001	Translator	No	Pole	12
Tililiangi	5	+10	H	0.1	0.05	Translator	No	Pole	12
Opunake	5	-10	V	0.3	0.05	Translator	No	Tower	37
Kohatu	5	+10	V	0.2	0.075	Translator	No	Tower	25
Greymouth	5	0	H	0.065	0.05	Translator	No	Tower	16
Kokatahi	5	-10	V	0.008	0.005	Translator	No	Pole	9
Mt. Hercules	5	+10	V	0.1	0.05	Translator	No	Tower	33
Hicks Bay	6	0	H	0.01	0.005	"	No	Pole	12
Mt. Egmont	6	-10	H	5.0	Dual 0.5	"	Yes	Tower	27
Mt. Erin	6	+10	V	5	0.5	"	Yes	Tower	34
Waiwae	6	0	H	0.001	0.0003	"	No	Pole	6
Tua Marina	6	0	H	0.025	0.015	"	No	Pole	8
Kiwi	6	0	H	0.001	0.0003	"	No	Pole	9
Cowan Valley	6	0	V	0.0004	0.0003	"	No	Pole	5
St Arnaud	6	0	V	0.001	0.0003	"	No	Pole	8
Paenga	6	+10	V	0.002	0.0003	"	No	Pole	9
Mt. Rochfort	6	-10	V	1.0	0.5	"	Yes	Tower	52
Puketiti	7	+10	H	0.3	0.15	"	No	Tower	24
Whakawhanga	7	0	H	0.001	0.0003	"	No	Pole	6
Otahou	7	0	H	0.3	0.1	Transmitter	Yes	Mast	21
Paekakariki	7	-10	V	0.02	0.005	Translator	No	Pole	9
Riwaka Valley	7	-10	H	0.0003	0.0003	"	No	Pole	9
Akatarawa	7	-10	V	0.0012	0.0003	"	No	Pole	10
Titahi Bay	7	-10	H	0.02	0.005	"	No	Pole	6
Drumduan	7	0	V	0.002	0.001	"	No	Pole	9
Malta	7	-10	H	0.0005	0.0003	"	No	Pole	6
Thorndon	7	-12	H	0.01	0.005	"	No	Bldg	24
Hine Rd. Wainui	7	0	H	0.001	0.0003	"	No	Pole	10
Aro Street	7	0	V	0.01	0.005	"	No	Pole	6
Rodrigo Road	7	+10	H	0.01	0.005	"	No	Pole	11
Fort Dorset	7	0	V	0.01	0.005	"	No	Pole	7
Glenhope	7	0	H	0.001	0.00025	"	No	Pole	9
Mangles Valley	7	+10	H	0.001	0.0003	"	No	Pole	12
Shenandoah	7	0	H	0.001	0.0003	"	No	Pole	12
Seddonville	7	-10	V	0.002	0.001	Translator	No	Pole	12
Jaangahua	7	-10	V	0.001	0.001	Translator	No	Pole	9
Paparoa Ranges	7	0	H	20.0	5.0	Transmitter	Yes	Tower	52
Wanganui	8	0	V	0.02	0.005	"	No	Pole	9
Mt. Burnett	8	+10	H	0.4	0.075	"	No	Tower	19
Paraparaumu	8	0	H	0.0006	0.0003	"	No	Pole	9
Cobb Power Station	8	-10	V	0.001	0.0003	"	No	Pole	2

↑ Amended since last issue

• Commissioned since last issue

• Interim Translator

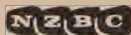
CORRECT AS AT 31 December 1973

OBSTRUCTION LIGHTING EMERG FS		HEIGHT (m) M.S.L.	CO-ORDINATES Lat. South Long East		STUDIO LOCATION	CALL SIGN	LOCATION
No	No	158	41° 15' 30"	174° 57' 15"	Waring-Taylor St. Wellington	WNTV-1	Wright St. Wainui-o-mata
No	No	3	41° 16' 05"	174° 47' 05"		"	Grain Silo
No	No	228	41° 17' 00"	174° 43' 50"		"	Karori
No	No	152	41° 17' 10"	174° 45' 22"		"	N/land Fire Station.
No	No	18	41° 17' 10"	174° 49' 30"		"	Darlington Road
No	No	18	41° 18' 40"	174° 49' 10"		"	Glamis Ave.
No	No	5	41° 12' 10"	174° 55' 10"		"	Melling
No	No	243	41° 14' 00"	174° 49' 10"		"	Newlands
No	No	778	41° 42' 50"	172° 54' 25"		"	Kikiwa
No	No	213	41° 48' 35"	172° 19' 00"		"	Six Mile Valley
No	No	315	41° 46' 48"	172° 20' 00"		"	Matiri
No	No	906	39° 19' 10"	174° 06' 15"		"	Dawson Falls
No	No	185	37° 57' 00"	178° 14' 18"		"	Makarika
No	No	736	43° 42' 40"	172° 56' 15"	Gloucester St. Christchurch	CHTV-3	Mt Pearce
Yes	No	496	43° 36' 15"	172° 39' 00"		"	Sugar Loaf
No	No	748	42° 54' 30"	172° 48' 55"		"	Waikari
No	No	3	43° 33' 35"	172° 42' 30"		"	Heathcote
No	No	76	43° 34' 25"	172° 46' 30"		"	Summer
No	No	152	43° 35' 58"	172° 43' 35"		"	Lyttelton
Yes	Yes	1088	44° 38' 30"	170° 53' 30"		"	Mt Studholme
No	No	366	43° 46' 20"	173° 04' 30"		"	Le Bons Bay
No	No	912	42° 35' 40"	172° 48' 10"		"	Hanmer
No	No	502	43° 46' 30"	172° 48' 45"		"	Trig T
No	No	231	43° 49' 20"	172° 57' 20"		"	Kaik Hill
No	No	549	43° 47' 50"	173° 02' 15"		"	Gough's/Hickory Bay
No	No	954	44° 08' 25"	170° 16' 50"		"	Mt Mary
No	No	92	42° 28' 55"	173° 31' 42"		"	Goose Bay
No	No	1038	42° 11' 56"	173° 47' 30"		"	Blue Duck
No	No	588	42° 25' 25"	173° 23' 59"		"	Surrey Downs
Yes	No	644	46° 05' 45"	168° 42' 00"	Dowling St. Dunedin	DNTV-2	Hedgehope
Yes	Yes	674	45° 48' 09"	170° 33' 03"		"	Mt Cargill
No	No	92	45° 51' 01"	170° 30' 00"		"	Woodhaugh
No	No	46	45° 38' 00"	170° 05' 00"		"	Middlemarch
No	No	1108	45° 55' 42"	168° 44' 12"		"	Coronet Peak
No	No	31	45° 44' 35"	170° 36' 55"		"	Doctors Point
No	No	122	45° 53' 06"	170° 28' 04"		"	Caversham
No	No	21	45° 52' 03"	170° 35' 06"		"	Ravensbourne
No	No	518	45° 55' 50"	169° 57' 55"		"	Waipori Falls
Yes	No	638	46° 14' 30"	169° 22' 10"		"	Kuriwao
No	No	708	44° 49' 30"	168° 49' 30"		"	Morven Hill
No	No	829	45° 01' 42"	160° 39' 00"		"	Skyline Chalet

Hours of transmission.

Mon - Thurs	Trade	0930 - 1315	Programme	1400 - 2300
Friday	Trade	0930 - 1315	Programme	1400 - 2400
Saturday	Trade	1200 - 1315	Programme	1400 - 2400
Sunday	Trade		Programme	1400 - 2300

3 of 3



H.O.E. OPERATIONS

N.Z.B.C. TELEVISION

T R A N S M I T T I N G

STATIONS

LOCATION	CHAN NEL	OFF SET KHz	POLAR ISATION	NOM. ERP kW	POWER kW	TRANSMITTER TYPE	EMERG PS	RADIATOR SUPPORT	SUPPORT HEIGHT (m)
Wright St. Wainui	8	0	V	0.001	0.0003	Translator	No	Pole	10
Grain Silo	8	+10	V	0.0075	0.0003	Translator	No	Bldg	61
Karori	8	0	H	0.01	0.005	Translator	No	Pole	9
N/land Fire Stn.	8	0	V	0.0001	0.0001	Repeater	No	Bldg	8
Darlington Road	8	0	H	0.006	0.0003	Translator	No	Pole	10
• Clans Ave.	8	-10	V	0.001	0.0003	Translator	No	Pole	10
• Melling	8	-10	H	0.001	0.001	Translator	No	Pole	10
• Newlands	8	-10	H	0.001	0.001	Translator	No	Pole	10
Kikiwa	8	+10	H	0.001	0.0003	Translator	No	Pole	9
Six Mile Valley	8	+10	H	0.005	0.001	Translator	No	Pole	9
Matiri	8	+10	V	0.003	0.003	Repeater	No	Pole	9
Dawson Falls	9	0	V	0.3	0.05	Translator	No	Pole	15
• Mekaika	9	-10	V	0.001	0.0003	Translator	No	Pole	9
† Mt Pearce	1	+10	H	0.1	0.04	Translator	No	Tower	35
Sugar Loaf	3	0	H	100	Dual 10	Transmitter	Yes	Tower	121
• Waikari	4		H	0.005	0.0025	Translator	No	Pole	9
Heathcote	4	0	H	0.02	0.005	Translator	No	Pole	9
Sumner	4	-10	V	0.02	0.005	Translator	No	Pole	9
Lytelton	4	-10	H	0.02	0.005	Translator	No	Pole	9
Mt Studholme	4	-10	V	2	0.5	Translator	Yes	Tower	34*
• Le Bons Bay	5	0	H	0.005	0.005	Translator	No	Pole	6
• Hanmer	5		H	0.025	0.025	Translator	No	Pole	6
Trig T	5	-10	V	0.01	0.005	Translator	No	Pole	14
Kalk Hill	5	0	H	0.10	0.005	Translator	No	Pole	10
• Gough's/Hickory Bay	5	-10	V	0.001	0.0003	Translator	No	Pole	8
• Mt Mary	5		V	0.03	0.005	Translator	No	Pole	6
Goose Bay	6	+10	V	0.001	0.0003	Translator	No	Pole	6
Blue Duck	8	+10	H	0.7	0.15	Translator	Yes	Tower	24
Surrey Downs	9	-10	V	0.025	0.005	Translator	No	Pole	8
Hedgehope	1	+10	H	100	Dual 10	Transmitter	No	Tower	117
Mt Cargill	2	+10	H	50	Dual 5	Transmitter	Yes	Tower	110
† Woodhaugh	4	+10	H	0.005	0.0005	Translator	No	Pole	9
• Middlemarch	4		H	0.025	0.025	Translator	No	Pole	9
• Coronet Peak	4		V	0.015	0.005	Translator	No	Pole	9
• Doctors Point	5	+10	H	0.001	0.0003	Translator	No	Pole	9
Caversham	5	0	H	0.005	0.0003	Translator	No	Pole	8
Ravensbourne	5	-10	V	0.02	0.005	Translator	No	Pole	6
• Waipori Falls	5	0	H	0.001	0.0003	Translator	No	Pole	11
Kuriwao	5	+10	H	0.2	0.1	Translator	Yes	Tower	36
• Morven Hill	6		H	0.01	0.005	Translator	No	Pole	8
• Skyline Chalet	7		H	0.005	0.005	Translator	No	Pole	9

† Amended since last issue.

• Commissioned since last issue

• Interim Translator

Correct as at 31 December 1973

OBSTRUCTION LIGHTING. EMERG. PS	HEIGHT (m) M.S.L.	CO-ORDINATES		STUDIO LOCATION	CALL SIGN	LOCATION
		LAT. SOUTH	LONG EAST			
No	No	122	38° 45' 55"	177° 58' 00"	WNTV-1	Muriwai
No	No	83	39° 06' 10"	173° 59' 15"	"	Poutoko
No	No	90	40° 39' 12"	172° 25' 30"	"	Nth Paturau River
No	No	91	40° 39' 30"	172° 28' 10"	"	Sth Paturau River
No	No	32	40° 48' 30"	172° 57' 12"	"	"
No	No	274	40° 59' 45"	172° 58' 50"	"	Wainui Inlet, Sandy Bay
No	No	882	41° 02' 25"	172° 51' 22"	"	Takaka Hill
No	No	1069	41° 06' 28"	172° 41' 20"	"	Cobb Dam
No	No	97	41° 10' 11"	173° 27' 04"	"	Delaware Bay
No	No	31	41° 11' 50"	173° 22' 00"	"	Glenduan
No	No	121	41° 11' 40"	172° 52' 20"	"	Pokororo
No	No	152	41° 15' 55"	172° 49' 00"	"	Woodstock
No	No	6	41° 31' 55"	171° 55' 55"	"	Waimaro
No	No	44	41° 16' 00"	172° 06' 50"	"	Karamea
No	No	518	42° 07' 20"	171° 51' 30"	"	Reefton
No	No	338	38° 02' 30"	178° 18' 30"	"	Te Pahi
No	No	336	38° 23' 59"	178° 19' 20"	"	Tilfrangi
Yes.	No	37	39° 19' 10"	174° 06' 15"	"	Opunake
No	No	610	41° 26' 24"	172° 41' 42"	"	Kohatu
Yes	No	3	42° 27' 30"	171° 11' 20"	"	Greymouth
No	No	91	42° 53' 12"	171° 00' 00"	"	Kokahai
No	No	348	43° 10' 10"	170° 27' 48"	"	Mt Hercules
No	No	183	37° 36' 05"	178° 18' 15"	"	Hicks Bay
No	Yes	1462	39° 17' 40"	174° 05' 14"	"	Mt Egmont
Yes	Yes	489	39° 44' 30"	176° 50' 30"	"	Mt Erin
No	No	46	40° 53' 25"	175° 03' 20"	"	Waikanae
No	No	202	41° 25' 50"	173° 55' 50"	"	Tua Marina
No	No	396	41° 32' 10"	172° 45' 17"	"	Kiwi
No	No	640	41° 46' 12"	172° 35' 45"	"	Gowan Valley
No	No	792	41° 48' 30"	172° 52' 00"	"	St Asaad
No	Yes	259	41° 55' 00"	172° 11' 05"	"	Paenga
Yes	No	1041	11° 46' 50"	171° 44' 15"	"	Mt Richmond
Yes	No	388	39° 11' 45"	173° 59' 20"	"	Pukeiti
No	Yes	615	37° 45' 00"	178° 13' 30"	"	Whakangi
Yes	Yes	350	40° 58' 31"	173° 45' 25"	"	Utahoua
No	No	15	40° 59' 00"	174° 57' 24"	"	Paekakariki
No	No	198	41° 02' 47"	172° 55' 15"	"	Riwaka Valley
No	No	122	41° 05' 50"	175° 05' 50"	"	Akatarawa
No	No	61	41° 06' 50"	174° 50' 50"	"	Titahi Bay
No	No	366	41° 11' 58"	173° 23' 11"	"	Drum duan
No	No	29	41° 16' 30"	173° 18' 10"	"	Maitai
No	No	31	41° 16' 30"	174° 46' 40"	"	Thorndon
No	No	92	41° 16' 30"	174° 58' 10"	"	Hino Rd. Waimuomai
No	No	198	41° 17' 50"	174° 45' 40"	"	Aro Street
No	No	76	41° 18' 22"	174° 47' 22"	"	Rodrigo Road
No	No	56	41° 19' 40"	174° 50' 05"	"	Fort Dorset
No	No	395	41° 39' 15"	172° 39' 20"	"	Glenhope
No	No	228	41° 48' 45"	172° 23' 10"	"	Mangles Valley
No	No	388	41° 49' 18"	172° 13' 35"	"	Shenandoah
No	No	121	41° 32' 10"	171° 56' 35"	"	Seddonville
No	No	107	41° 51' 30"	171° 56' 00"	"	Inangahua
Yes	Yes	853	42° 24' 10"	171° 20' 40"	"	Paparoa Ranges
No	No	122	39° 53' 30"	175° 03' 54"	"	Wanganui
No	No	625	40° 38' 36"	172° 38' 20"	"	Mt. Burnett
No	No	76	40° 55' 09"	175° 00' 52"	"	Paraparaumu
No	No	488	41° 05' 20"	172° 43' 15"	"	Cobb Power Station

Hours of transmission.

Mon - Thurs	Trade.	0930 - 1315	Programme.	1400 - 2300
Friday	"	0930 - 1315	"	1400 - 2400
Saturday	"	1200 - 1315	"	1400 - 2300,
Sunday	"	"	"	1400 - 2300

NEW ZEALAND PRIVATE BROADCAST STATIONS

- 1XA 1480 kHz 5 kw Radio Hauraki (NZ)
Ltd.
Box 1480, Auckland.
(emergency standby power available at transmitter)
- 1XI 1590 kHz 5 kw Radio i Ltd.
Box 8504 Auckland.
- 1XW 930 kHz 2 kw Independent Broadcasting
Co. Ltd.
Box 9300, Hamilton.
- 1XX 1240 kHz 2 kw Radio Whakatane Ltd.
Box 383, Whakatane.
- 2XW 1080 kHz 5 kw Capital City Radio Ltd.
Box 558, Wellington.
- 3XA 1290 kHz 2 kw Radio Avon Ltd.
Box 1290, Christchurch.
(emergency standby power available at both studios
and transmitter)
- 4XD 1430 kHz 250w Otago Radio Association
Inc.
C/o Calder Mackay Co.
Ltd.
180 Rattray St., Dunedin.
- 4XO 1210 kHz 2 kw Radio Otago Ltd.
Box 1210, Dunedin.

WHEN CORRESPONDING WITH

N.Z.A.R.T. HEADQUARTERS

always QUOTE YOUR

- Branch Number
- Membership Classification

(refer editorial)

MOUNTAIN RADIO SERVICE

1. Radio-telephones from this service are usually capable of direct communication with the Base Station, ZK1B in Christchurch, from all parts of the South Island.
2. They are available to members of the Canterbury/Westland section of the New Zealand Alpine Club, the Canterbury Mountaineering Club, the Christchurch Tramping Club and other people and organisations at the Committee's discretion.
3. All enquiries should be addressed to:
The Secretary,
Canterbury Mountain Radio Service Inc.,
P.O. Box 22-342,
Christchurch
or 'phone:
Paul White,
Private 325-846; business: 78-392.
Geoff Harrow,
Private: 486-614; business: 68-414.
4. The responsibility for care of the radio set rests entirely with the hiring party. The official Application Form must be completed.
5. Hire charges are \$1.00 per day or \$4.00 per week for the days the radios are in the field. A surcharge of 50 cents per day will be charged if the radios are not returned within three days of the indicated returning date. Batteries are available from the Radio Service at \$1.00 per set.
6. While every endeavour will be made to keep the schedule times, no responsibility will be accepted by the Radio Service.
7. Although the primary value of the radios is in an emergency, daily information (such as weather forecasts) is provided, and messages are passed on.
8. Radio should be returned as soon as possible to:
Paul White,
8 Rossmore Terrace, Christchurch 2,
or
C/o White's Sign Service, 203A High St.,
Christchurch 1.
or
Geoff Harrow,
27 Athol Terrace, Christchurch 4.

Base Stations:

CHRISTCHURCH

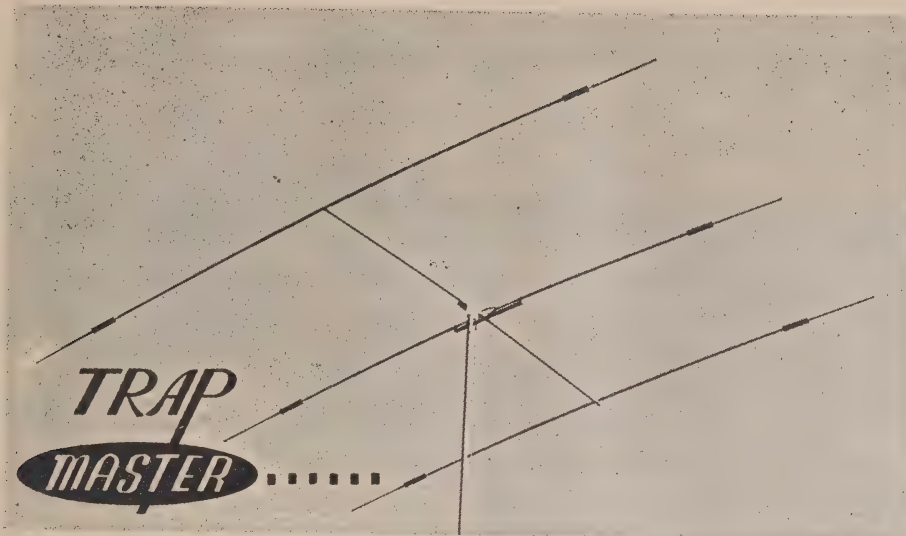
ZKIB Base, Cedric Turner, 327-609.

DUNEDIN

ZKIB101 Ron Kingston,
12 Kennilworth Street,
Waverly, Dunedin.
Phone 44-664.

INVERCARGILL

ZKFK Base, Bill Reynolds,
189 George Street,
Invercargill.
Phone 79-486.



"MOSLEY" Trap Master Antenna. TA-33-JR. 3 element tribander for 20/15/10 metre bands. Light weight design of only 20 lbs — easily handled with low cost rotators.

"MUSTANG" Similar in general design to the TA-33 JR but features larger traps and heavy hardware. Suitable for powers up to 2kW PEP.

MCQ-3B Tribander quad 20/15/10 metre. All metal construction. Gamma feed for 52 ohm Co-ax cable. 35lbs weight.

MOSLEY, the rust proof antenna. All hardware is stainless steel . . . only **MOSLEY** offer this quality.

FOR A TO Z IN AMATEUR RADIO EQUIPMENT

We are able to offer the ZL amateur a choice of brands and models to suit the pocket and operating requirements. Yes — all makes — all models . . . Antenna include MOSLEY, Hy-GAIN, HUSTLER, G-WHIP, SWAN. Baluns by K.W. Electronics, H.Z.P. and Hy-Gain. Dummy loads by K.W. and Heathkit. Microphones by Shure and Turner Electronics keyers, speech compressors both RF and audio types. Rotators by ALLIANCE and C.D.E. to suit all size of antenna installation. Co-ax cable of all sizes and impedances. Connectors of all types to suit. SWR bridges, antenna switches. All accessories for the amateur station.



K.W. Electronics Ltd., England. Manufacturers of a complete line of amateur radio equipment. Shown is the K.W. 108 solid state monitor scope, K.W. 107 tuning system, includes SWR/power meter, dummy load, antenna selector switch, all band tuner to match any type antenna. K.W. Ez-Ee match tuner to match any antenna to 50 or 75 ohms transmitter. K.W. 103 SWR/Power meter. Write for details of any amateur equipment . . . data sheets and prices posted by return. Please be exact so we do send you the correct information.

DES WRIGHT LTD

19 MAIORO STREET, AVONDALE EAST, AUCKLAND 7.

PHONE 677-189



CONTESTS —&— AWARDS from JOCK ZL2GX

ASSISTANT CONTEST MANAGER—PETER KENNY ZL2QK

Applying for an Award

When applying for an award, whether through NZART or through an Overseas Society, courtesy demands that you observe the following points:—

1. Write a letter of application for the award.
2. Supply a checking sheet with the call-signs, date of QSO, etc., of the cards submitted.
3. Write your own call-sign, name and address legibly—preferably PRINT—on checking sheet.

4. Enclose stamps or Reply Coupons for the return postage on your cards.

Attention to these points makes the task of the fellow at the receiving end so much easier.

NOTE: ZL applicants for WAP, WAD, WAZL, etc., etc., should send details direct to the Awards Manager, while Overseas applicants may post via NZART, Box 489, Wellington, or direct to ZL2GX.

NZART AWARDS —

1. The usually accepted rules apply to all NZART Awards, especially those relating to *fair play* and good operating ethics.
2. Endorsements are available for PHONE and for CW (Note that SSB is recognised as phone and not as a separate identity) as well as for different bands where applicable.
3. All confirmations must date from November 1945.
4. Established codes apply — e.g. — applications may be certified by one other amateur in which case no QSL cards need be sent with application; repeat awards are issued following further qualifying requirements for that award; no charge to blind or badly handicapped applicants; special endorsements covering bands or operating periods of time as requested by applicant; all awards are available to SWLs.
5. When QSLs are sent, return postage must be forwarded.

WAP (Worked All Pacific) —

Confirmations required from 30 different "Oceania Countries" from the WAP List — No

Charge. Because *prefixes* change from time to time, no prefixes are given in the last of eligible countries. The point of eligibility is the COUNTRY — not the prefix.

*** Port. Timor ; Philippines ; Adelie Land ; New Caledonia ; French Oceania ; Wallis Island ; New Hebrides ; Baker, Howland, American Phoenix Island ; East Carolines ; West Carolines ; Mariana Island ; Bonin & Volcano Island (now Ogasawara Island) ; Marcus Island (now Minami Island) ; Guam ; Hawaiian Islands ; Johnston Island ; Midway Island ; Palmyra Island ; American Samoa ; Wake Island ; Marshall Island ; Java ; Sumatra ; Borneo ; Celebes ; West Irian ; Australia ; Lord How Island ; Willis Island ; Macquarrie Island ; New Guinea ; Norfolk Island ; Papua ; Nauru Island ; Christmas Island ; Cocos Island ; Gilbert Island ; Ellice Island ; Br. Phoenix Island ; Fiji Island ; Fanning & Washington Island ; Solomon Island ; Tonga ; Pitcairn Island ; Sarawak ; Brunei ; North Borneo ; Northern Cook Islands ; Southern Cook Islands ; Samoa ; Tokelau Islands ; Kermadec Islands ; Niue Island ; New Zealand ; Chatham Island ; Auckland & Campbell Islands ; Antarctica (ZL5 only).

TEN-TEC

ALL SOLID STATE COMMUNICATIONS EQUIPMENT



Just compare these specifications with other equipment on the market — then ask the users and you too will come to the conclusion that “Ten-Tec” is for you.

ARGONAUT MODEL 505 Features all band operation 80, 40, 20, 15 and 10 with the flick of a switch. A 9 MHz crystal filter with 2.5 kHz bandwidth and 1.7 shape factor at 6/50db downpoints makes this one of the best receivers on the market at present. Automatic and reversible sideband selection, permeability tuned circuits and direct frequency readout on a clear slide rule dial make operation so easy. All circuit boards are plug-in for easy service. Operates from just 12v DC, you can operate it from lantern batteries for field day use. Power input 5 watts DC 5 watts PEP and the final amplifier is broadband 50-75 ohms press to talk. Built in SWR bridge/“S” meter. CW is a cinch too. Just switch to CW and key it for full break in operation. The receiver provides a sensitivity of $.5\mu\text{v}$ for 10 db S+N/N with negligible dial backlash, AGC, CW side tone, offset tuning, built in speaker and provision for headphones. Weighs only 6lbs—light enough even for a pack. Available for this is a **405 LINEAR** providing 100 watts input power, battery or power pack operation, push/pull broadband output and no tuneup. What's more its impervious to antenna mismatch, has in built harmonic filters and separate power and SW R meters. Matching power supply Model 251.

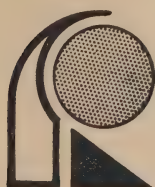
Low DC potentials remove shock hazard, low internal heat extends component life. Full electronic “Break-In” enables you to monitor the frequency while transmitting. Mobile is no problem either. Just connect battery cable to car, plug in antenna and you are “on the air”. Because there is no heavy AC supply to carry around weight is kept down. Designed for full rated power continuous operation even for RTTY or SSTV.

GET WITH IT — GET THE LATEST “STATE OF THE ART” EQUIPMENT” — GET “TEN-TEC”

TRITON I & II There is not enough room to tell you all about them here so write for a data sheet giving all the details. Suffice to say here that they are all solid state and respectively 100 and 200 watts. Still operate from 12-15v DC and AC power supplies available for Home Station Operation.

Physically small HWD $4\frac{1}{2} \times 13 \frac{5}{8} \times 13$; weight 12lbs.

Prices are reasonable. Stock is available very soon. Write now for details.



P. H. ROTHSCHILD & Co. Ltd.

83 PRETORIA STREET, LOWER HUTT

Warehouse: 2 Pretoria Street.

Telephone 663-581. P.O.Box 30170 Telegrams: “FRANDS”, Lower Hutt

NZA — New Zealand Award

Available to all radio amateurs other than ZL.

Requirements:

- 35 confirmations from ZL1.
- plus 35 confirmations from ZL2.
- plus 20 confirmations from ZL3.
- plus 10 confirmations from ZL4.
- plus 1 confirmation from a ZL "territory"—

either from N.Z. Antarctica, Chatham Is.; Kermadec Is.; or Campbell Is. This one confirmation may be substituted by 20 ordinary ZL confirmations if desired.

This makes a minimum of 101 confirmations which should be dated from 8th December, 1945. (No charge).

WAZL

(Worked All New Zealand)

Confirmations required from 45 different Branches of NZART—except for Overseas Applicants (for whom only 35 different Branches are required). Special endorsement when WAZL completed within a 12 month period. (No charge).

NZART Branches for WAZL

01 Ashburton	38 Taumarunui
02 Auckland	39 Tauranga
03 Western Suburbs	40 Te Awamutu
04 Cambridge	41 Thames Valley
05 Christchurch	42 Titahi Bay
06 Dannevirke	43 Waihi
07	44 Matamata Radio Club
08 East Southland	45 Waimarino
09 Egmont	46 Wairarapa
10 Franklin	47 Waitara
11 Gisborne	48 Wanganui
12 Hamilton	49 Westland
13 Hastings	50 Wellington
14 Hawera	51 Eastern Bay of Plenty
15 Hawke's Bay Central	52 Wairoa
16 Horowhenua	53 Te Puke
17 Huntly	54 Patea
18 Hutt Valley	55 Waitomo
19 Inglewood	56 Hornby
20 Manawatu	57 Tokoroa
21 Manukau	58 Helensville
22 Marlborough	59 Mangakino
23 Marton	60 Taupo
24 Motueka	61 Central Otago
25 Napier	62 Reefton-Buller
26 Nelson	63 Upper Hutt
27 New Plymouth	64 North Otago
28 Northland	65 Papakura
29 North Shore	66 Auckland VHF
30 Otago	67 Kawerau
31 Pahiatua	68 North Canterbury
32 Rahu Coastal	69 Kapiti
33 Rotorua	70 Feilding
34 South Canterbury	71 Rodney
35 South Otago	72 Oporiki
36 South Westland	73
37 Southland	74 Wn. VHF.

W.A.D. (A VHF Award)

Confirmations required on any VHF band (or mixture of VHF bands) from ZL1, ZL2, ZL3, ZL4. (No charge).

V.H.F.C.C.

V.H.F. CENTURY CLUB

100 points required from QSO's with ZL stations on the following basis:

- 56 mcs. band contacts count 1 point.
- 144 mcs. band contacts count 3 points.
- 420 mcs. band contacts count 6 points.

(Further bands may be added in the future).

The same station may be claimed **once** on any one band but may be claimed repeatedly on **different** bands.

Endorsement stickers available for 200, 300, 400, 500 points. (No charge).

NZC — New Zealand Counties

Basic award requires confirmations from 20 different N.Z. Counties. Stickers for 40, 60, 80, 100 counties with special certificate for all 112. Contacts must date from November 1945.

Costs: Initial certificate with any endorsements — 25c (3 IRC) — or if sent overseas by airmail \$1. Endorsements 10c (2 IRC). Checking Sheets are available for 10c (2 IRC) — these are returned to applicants to retain as a record and use for further endorsements, etc. The operator on a County DX-pedition may claim that County for his own NZC credit. All applications to ZL2GX.

"ZL-71" AWARD

Work 50 different ZL stations during 1971 with at least one from the four areas (ZL1, ZL2, ZL3, ZL4) and send certified list of contacts with 3 IRC or 25 cents in stamps from the country of origin to Awards Manager ZL2G.

"ZL-72" AWARD

Overseas stations work 50 different ZL stations during 1972; ZL stations work 100 as follows: 35 ZL1, 35 ZL2, 20 ZL3, 10 ZL4 during 1972. Certified list with 3 IRC or 25 cents in stamps to Awards Manager ZL2GX.

"ZL-73" "ZL-74" etc.

Rules as for ZL-72 except ZL and/or ZM are acceptable. Certificate will be rather unusual but appropriate. All applications to ZL2GX.—(G.C.R.).

"ZLA" AWARD

Confirmations required from Auckland City ZL1, Wellington City ZL2, Christchurch City ZL3, Dunedin City ZL4, Antarctica ZL5, Campbell Island, Chatham Island, Kermadec Island. Applications must send certified list that QSLs have been sighted (do NOT send QSLs) to Awards Manager ZL2GX with 3 IRC or 22 cents in stamps from country of applicant. Specially produced certificate.

COOK-BICENTENARY AWARD

For contacts with 50 stations using the ZM prefix during 1969/70. Certified list as for other awards.

"5 x 5" (FIVE BY FIVE)

This Premier Award has been instituted to recognise the increasing interest in 5 Band DX operation. The initial award requires that the same station be contacted on 5 bands repeated with 5 different DXCC countries. First endorsement after a further 5 has been contacted (total of 10) with the 20 endorsement requiring another 10 and so on to 100. Certified list with full qso data and fee of \$1 which includes all endorsements. Certificate is outstanding and is overprinted in embossed gold. Contacts must date from 1945. Applications to ZL2GX.

TIKI AWARD

Work five different ZLs, each on FIVE different bands dating post war. 3 IRC or 25 cents in stamps — to ZL2GX.

ZL1 AWARD

Basic Award required contacts (not confirmations) with 125 different ZL1 stations dating post war. Endorsements for 175 and 250.

ZL2 AWARD

Basic Award requires contacts (not confirmations) with 100 different ZL2 stations dating post war. Endorsements for 175 and 250.

ZL3 AWARD

Basic Award requires contacts (not confirmations) with 50 different ZL3 stations dating post war. Endorsements for 75 and 100.

ZL4 AWARD

Basic Award requires contacts (not confirmations) with 25 different ZL4 stations dating post war. Endorsements for 35 and 50.

Note: Cost of ZL1/2/3/4 Certificates is 25 cents each (or 3 IRC) with any endorsements. Further endorsements will cost 10 cents of 1 IRC UNLESS a new certificate is required instead of the "sticker", in which case the cost is 25 cents. On issue, certificates will be endorsed for band/mode as requested and for any yearly period of time (Jan. thru Dec.). Such endorsements are of course, available to applicants at any time after the initial award has been made. ZL or ZM or combination is OK. APPLICATIONS with list to ZL2GX.

"MIA" MINOR ISLANDS AWARD

For contacts with minor islands off the NZ coast — e.g. Kapiti Island ; Portland Island ; Great Barrier Island ; Little Barrier Island ; Waiheke Island ; D'Urville Island ; Rangitoto Island ; Kawau Island ; Motutapu Island ; etc. from which FIVE contacts are required. Certified list with 3 IRC or 25 cents in stamps to ZL2GX. N.B. So called "islands" in Auckland area which are connected to mainland by a causeway are not eligible.

"CJC" CAPTAIN JAMES COOK AWARD

To perpetuate the memory of this world famous navigator and seaman — in three classes: 1. Basic "Sailor Class" requires contacts with — G in Yorkshire; FO8 ; ZL2 ; VK2 ; KH6 . . . For "Officer Class", "Sailor Class" contacts as well as ZL1, ZL3, ZL4, VK3, VK4, VK9 New Guinea, and any Antarctica station . . . For "Command Class", as for "Officer Class" as well as any *five* of the following — VE2, VO, VR5, YJ8, FK8, CE8, KL7. Certified list (confirmations not required) with 3 IRC or 25 cents in stamps to ZL2GX.

OTHER AWARDS NOT OFFICIAL NZART

AUCKLAND BRANCH CERTIFICATE

Available to overseas stations only. Work 15 members of Auckland Branch (No. 02) since 1st January 1957. List of stations with date of contact to ZL1TB. Applicants do not have to have QSL Cards from stations on list. Free of charge.

MANAWATU AWARD

Available only to overseas amateurs who contact 5 stations in the Manawatu (Palmerston North area). Send list of stations worked (qsls not required) to ZL2AFT, 431 Albert Street, Palmerston North.



"HY-GAIN" ANTENNAE ---

SOON EX STOCK !!

We told you there was more to an Antenna than pretty looks SOON you will be able to buy them ex stock. Not all of them of course, we don't have that much licence, but certainly the popular types. SOME ARE IN STOCK RIGHT NOW. See below.

18AVT/WB

Most popular
of all.

Wideband
vertical

80 thru 10

easy to

install,

reasonably

priced,

takes

little room.



LET'S JUST HAVE A LOOK AT THESE AGAIN

TH3Jr Popular 3 element beam 10, 15, 10 metres. Fully trapped, light weight, robust construction. Budget priced for your pocket.



2 METER AERIALS
COLINEAR GROUND PLANE GPG2
GAIN: 3.4db 52 ohms coax feed
VSWR less than 1.5:1
4ft radiator length
19in. radials.

3 ELEMENT MODEL 23
GAIN 9db
FRONT TO BACK RATIO 20db
VSWR 1.5:1
POWER HANDLING 1kW
Impedance 50 ohms
Weight only 3.2lbs.

8 ELEMENT MODEL 28
GAIN 14.5db
FRONT TO BACK RATIO 25-30db
VSWR 1.5:1
POWER HANDLING 1kW
Impedance 50 ohms
Weight only 7lbs

BUY THE BEST — BUY HIGH GAIN

TEAM UP YOUR AERIAL WITH A CDE ROTOR.

TWO MODELS TO CHOOSE FROM. WRITE FOR DETAILS.

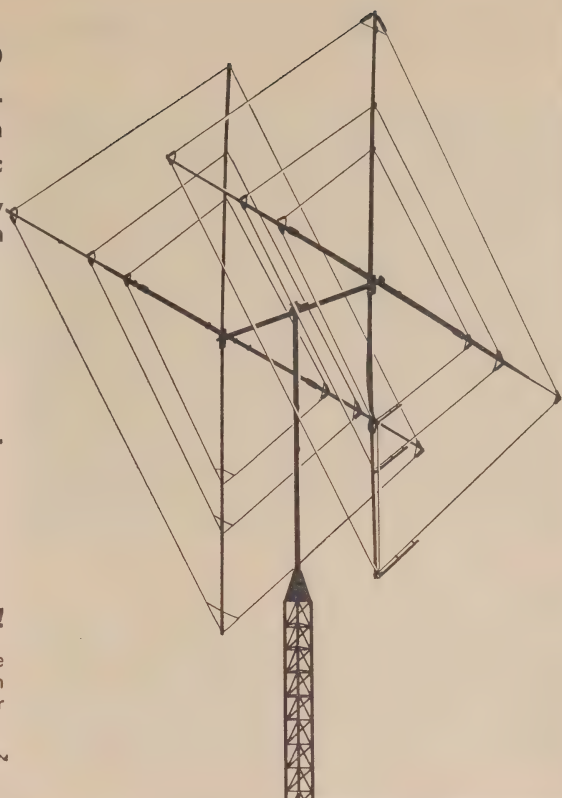
TH6DXX—Daddy of them all. 6 element 20, 15, 10 metres. It's a beauty and well worth the money. Ask those who use one.

Rotors available also — Baluns etc.

Ex Stock Now: 18AVT/WB — TH6DXX

HY-QUAD — NOTHING ELSE TO BUY. ONLY ONE FEED LINE FOR ALL BANDS — 20, 15, 10. Spreaders broken up into non-resonant lengths by cyclac insulators stranded aluminium wire, individually tuned gamma matches for each band, no inter-action.

For those who want the best.



NOTE

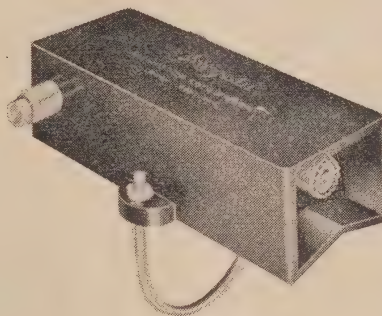
Because of new exchange rates
Prices are **LOWER**

lower
lower !!!

Now compare a **HEATHKIT** with what else is on the market and see how it stacks up. Remember Heath still uses transmitting tubes in its transmitters for reliable long-life service.

BALUN BN-86

Can be used with any
beam antenna
3 thru 30 MHz.
Use it also
on doublets, etc.

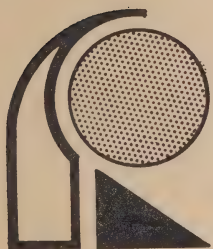


Mobile Whips "HAMCATS"

Solid construction, separate coil and whip assemblies for each band. Nominal 52 ohms impedance on all bands. Fibreglass covered coils, swivel top. Made in the best HyGain tradition.

Ask for more details — tell us which you want and we'll quote you

When you think of aerials — **think of HY-GAIN** — buy from



P. H. ROTHSCHILD & Co. Ltd.

83 PRETORIA STREET, LOWER HUTT P.O. BOX 30170

WAREHOUSE: 2 PRETORIA STREET

Telephone 663-581

Telegrams: "FRANDS", Lower Hutt

CHRISTCHURCH AWARD



Requirements: Christchurch amateurs 25 different stations! rest of ZL—15 stations; VK—10 stations; rest of world—5 stations. Cost: ZL's 50 cents; others US \$1.00 or equal. Applications to Awards Manager, Box 1733, Christchurch.

BAY OF PLENTY AWARD

Overseas stations contact 5 stations in the area (Opotiki, Rotorua, Tauranga, Whakatane) while ZL require 10 or 5 on VHF. Send certified list with 8 IRC or 50 cents to ZL1AH, Welcome Bay, R.D. 5, Tauranga.

WELLINGTON AWARD

By Chapter 67 CHC as follows: ZL stations require 25 contacts with at least two from each of the four areas of Wellington City: Lower Hutt/Petone, Upper Hutt, West Coast Districts (Titahi Bay, Porirua, etc., etc.). VK/ZK and nearby areas require 10 contacts with at least ONE from each of the listed areas. Rest of World require five contacts with at least ONE from each of three areas listed. Applications to ZL2AH with four IRC or 25 cents together with certified list.

GISBORNE AWARD



Requirements: Contacts after 1 January 1969 as follows: Gisborne amateurs—10 different stations; ZL—4 stations; rest of world—2 stations. Cost 25 cents or 3 IRC. Apply to ZL2GX.

D.X.C.C.

Effective 1 July 1974, all new applications for DXCC must be submitted with \$3.50 (U.S.) or equivalent IRC to cover return postage on cards (registered first class), as well as DXCC lapel pin and certificate.

HEATHKIT

YOU KNOW HEATHKIT HAS THE ANSWERS

For all band operation the now well known HW101 Transceiver or the top of the line SB102. Get the Accessories as well . . .

A Linear or the Test Equipment:

SB650 DIGITAL FREQUENCY COUNTER

SB610 SPECTRUM MONITOR

SB620 SPECTRUM ANALYZER

SB600 SPEAKER

HM102 WATTMETER/SWR BRIDGE

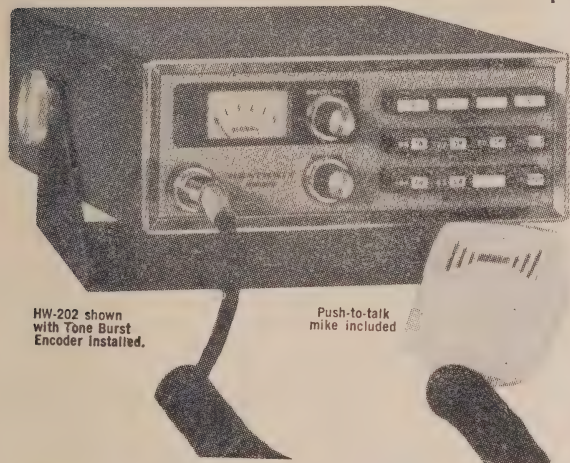
HM2102 VHF WATTMETER

HM2103 RF LOAD/WATTMETER

HN31 DUMMY LOAD

PM2 POWER METER

Or how about some fine two meter gear. All solid state compact designs, duty free prices.



HW-202 shown
with Tone Burst
Encoder Installed.

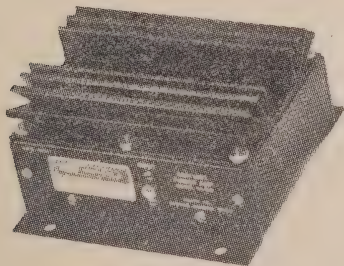
Push-to-talk
mike included

HW-202 SPECIFICATIONS — RECEIVER — Sensitivity: 12 dB SINAD* (or 20 dB of quieting) at 5 μ V or less. Squelch threshold: 0.3 μ V or less. Audio output: 3 W at less than 10% total harmonic distortion (THD). **Operating frequency stability:** Better than $\pm 0.015\%$. Image rejection: Greater than 45 dB. Spurious rejection: Greater than 60 dB. IF rejection: Greater than 80 dB. First IF frequency: 10.7 MHz ± 2 kHz. Second IF frequency: 455 kHz (adjustable). **Receiver bandwidth:** 22 kHz nominal. **De-emphasis:** -6 dB per octave from 300 to 3000 Hz nominal. **Modulation acceptance:** 7.5 kHz minimum. **TRANSMITTER —** Power output: 10 watts minimum. Spurious output: Below -45 dB from carrier. **Stability:** Better than $\pm 0.015\%$. **Oscillator frequency:** 6 MHz, approximately. **Multiplier factor:** X 24. **Modulation:** Phase, adjustable 0-7.5 kHz, with instantaneous limiting. **Duty cycle:** 100%. **erating frequency range:** 143.9 to 148.3 MHz. **Current consumption:** Receiver (squelched): -12° to 122° F (-25° to + 50° C). **Operating voltage range:** 12.6 to 16.0 VDC (13.8 VDC nominal). **Dimensions:** 2 3/4" H x 8 1/4" W x 9 7/8" D.

*SINAD = $\frac{\text{Signal} + \text{noise} + \text{distortion}}{\text{Noise} + \text{distortion}}$

Heathkit HW-202 2-Meter Transceiver

TO INCREASE THE RANGE HOW ABOUT A LINEAR?



Kit HA-202, 4 lbs.

HA-202 SPECIFICATIONS — Frequency range: 143-149 MHz. Power output: 20W @ 5 W in, 30W @ 7.5W in, 40W @ 10 W in, 50W @ 15W in. Power input (rf drive): 5 to 15W. Input/output impedance: 50 ohms, nominal. Input VSWR: 1.5:1 max. Load VSWR: 3:1 max. Power supply requirements: 12 to 16 VDC, 7 amps max. Operating temperature range: -30° F. to +140° F. Dimensions: 3" H x 4 1/4" W x 5 1/2" D.

All These and Many More . . . Heathkit Makes Equipment For All Your Requirements. Write For A Catalogue And Detail Your Requirements. From the Friendly Firm



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PANIA OF THE REEF

An old Maori legend tells how Pania, lured by the siren voices of the sea people, swam out to meet them. When she endeavoured to return to her lover, she was transformed into the reef which now lies beyond the breakwater at Napier, New Zealand.



Award Requirements:—

1. ZL and VK stations work 12 members of W.A.R.O., DX stations work 5 members, after 1st June, 1969, and to include one each from ZL 1, 2, 3 and 4.
2. Net contacts do not qualify.
3. SSB, AM, CW QSOs qualify, any band.
4. To apply for Award send QSL cards and list to Custodian, Thelma Souper, ZL2JO, 64 Kirk Street, Otaki, with sufficient postage for the return of QSL cards.
5. All contacts must be from the same QTH.

"July nets were very good with a gratifying number calling in on S.I. and National nights. Thelma has had a contact with Darleen from her new QTH and callsign is confirmed. We have received the following interesting letter from Darleen.

**PLEASE QUOTE YOUR BRANCH
NUMBER AND MEMBERSHIP
STATUS WHEN CORRESPOND-
ING WITH N.Z.A.R.T. HEAD-
QUARTERS.**

NELSON MOBILE AWARD

Points system with several alternate methods of obtaining the award for both mobile stations and fixed stations.

1. Mobile to Fixed, 100 points required (must include 2 Branch 26 contacts).
2. Mobile to Mobile, 50 points required (must include 1 Branch 26 contact).
3. Fixed to Mobile, 100 points required (must include 1 Branch 26 contacts).
4. Worked Mobiles in 40 N.Z. Counties (must include 1 from Waimea).
5. Worked Mobiles from 35 N.Z. Branches (must include 1 from Branch 26).
6. Mobile station to work 35 Prefixes.

One point for a contact in own radio district, two points in adjacent district and three points in alternative or DX. First two Branch 26 contacts count 4 points each. Duplicate contacts not allowed except in County section.

QSL's not required. Two Amateurs should verify the log submitted. Refer to full details in July 1969 *Break-in*. CHC rules apply.

\$1 to Jim Eyles, ZL2VZ, 30 Surrey Road, Richmond, Nelson. Additional endorsements 25 cents.

REEFTON-BULLER AWARD

Basic Award requires contacts with any 5 Branch members; Merit Award requires in addition to Basic that ZLs contact — one Branch 62 Mobile, one XYL, and the Club Station ZL3WP while overseas stations contact any one of those mentioned. Special merit for contacts made in 1973 between 1 October and 31 December. No QSLs required. Send certified list with 35 cents to ZL2GX. List of members, etc., available from Branch 62 secretary.

NAPIER AWARD

For contacts from 1 January 1974 in three classes — BASIC AWARD requires contacts with 5 different Napier stations with one on CW; For GOLD STAR you must contact Club station ZL2ABJ during 1974; For DELUXE AWARD a further (after Basic Award) three Napier Stations on phone and a further two on CW. Net contacts

**NOW is the time to
write articles for**

BREAK-IN

Nothing is TOO BIG

Nothing is TOO SMALL

do NOT qualify. QSLs not required — Certified list with 3 IRC or 25 cents in stamps to ZL2AFZ, Box 4030, Napier.

CHC AWARDS

For details of these write to CHC secretary ZL1QW who will supply full data sheets for the following...

1. WORK NZ MEMBERS of CHC — ZLs contact 25 members; Overseas contact 15, each with the four districts represented.
2. AUCKLAND REGIONAL AWARD — Essential to use special Check List/Application form — cost 5 cents (1 IRC).
3. OCEANIA ITU/COUNTRIES & CAPITAL CITIES AWARD — similar to WAP. For above — obtain check list from ZL1QW.

N.Z.A.R.T. CONTESTS

THE SANGSTER SHIELD

The Sangster Shield was presented in 1927 by Mr R. Sangster to the amateurs of New Zealand for competition each year, and is won by the most efficient QRP (low power) CW station complying with the rules. The contest is held on the 80 metre band. Section for transistor equipment.

THE MEMORIAL SHIELD

This contest is held by NZART in commemoration of those amateurs who were killed on active service during World War II. The contest is open to both phone and CW stations on the 80 metre band.

A miniature of the Memorial Contest Cup is awarded to the winning station each year.

H. P. V. BROWN CUP

This trophy was donated by Mr H. P. V. Brown (ZL3CG) for competition on the VHF bands. For several years the contest took the form of a bi-annual marathon on the 6-metre band. The trophy is now awarded to the ZL making the highest score in the annual Ross Hull Memorial VHF Contest, which is organised by the Wireless Institute of Australia. This contest is usually run during December/January.

FREQUENCY MEASURING CONTEST

An annual activity for transmitting amateurs and SWL's as well. Is held during the month of June when contestants have to measure the frequency of an amateur station on 80 metres. The John McKim Memorial Trophy is presented to the contestant with the most accurate frequency meter which is home-made, while Norm Edwards Shield goes to winner of Commercial Section.

NATIONAL FIELD DAY

This contest was designed to promote AREC practice and provide Club activity while at the same time there is activity for the individual and the SWL fraternity. The contest is held in February on the 80 and 40 metre bands. Two trophies are available—the Montgomery Cup for stations using high power and the W.H. Hall Memorial Trophy for stations using 5 watts or less.

THE VK-ZL INTERNATIONAL DX CONTEST

This contest is sponsored by NZART in conjunction with the Wireless Institute of Australia and is for international DX on all amateur bands. The contest is normally held in first two week-ends of October annually, and has both phone and CW transmitting and also a receiving section.

OVERSEAS AWARDS

NOTE:

1. There are hundreds of Awards. Most of these are listed in the "DIRECTORY OF AWARDS" published by K6BX, 3212 Mesa Verde Road, Bonita, California 92002, USA at a cost of \$4.00 (copies available from CHC Secretary, ZL1QW).
2. Most overseas awards can be certified by NZART Awards Manager so the QSL's don't have to be sent overseas BUT, always send a FULL checking list with all QSO data, etc., on which can be written the certification and which can be sent as the application. (ARRL awards cannot be certified).
3. ALWAYS SEND SUFFICIENT RETURN POSTAGE for QSL's, etc. Print name and address on each sheet of paper used.

WAC—WORKED ALL CONTINENTS

Issued by IARU only through affiliated societies. Applications from financial members of NZART only must be made through the Awards Manager accompanied by checking list; QSL cards from 6 continents; and return postage. Endorsements are available when all contacts are made—

- (1) On 160 metres. (2) On SSB. (3) On 6 metres.
- (4) On 80 metres.

NOTE: This award is **not** available to non-members of NZART and is not available direct from IARU or ARRL.

A-1 OPERATOR CLUB

The basic aim of the A-1 Operator Club is to promote good operating in the amateur bands. To become a member one must be nominated by at least two operators who already belong. Every amateur should strive to merit nomination by following standard operating practice, by observing the rules of good phone operating, and by making his CW as clean and accurate as possible. An attractive certificate is awarded to each amateur who qualifies for membership. Note: This award is sponsored by the ARRL. Several ZL amateurs are members. Strive to merit nomination—you never know who may be listening. Similar awards are: TOPS; FOC; HSC.

RSGB AWARDS

N.B.: South Africa contacts must date before 1 June 1961.

1. Send to NZART Awards Manager for RSGB Awards application form for all RSGB Awards—this lists all acceptable call areas.
2. Return completed application form to NZART Awards Manager with QSL cards for certification. Cards and list will then be returned.
3. Post application to RSGB with British Postal Note for 7/- for each award.

WBC—WORKED BRITISH COMMONWEALTH.

Confirmations required from British stations in each of the five recognized continental areas—America; Asia; Oceania; Africa; Europe.

BCRTA—BRITISH COMMONWEALTH RADIO TRANSMISSION AWARD.

Confirmations required from 50 call areas in the Commonwealth. Endorsements available for modes/bands.

BCRRA—BRITISH COMMONWEALTH RADIO RECEPTION AWARD.

As for BCRTA above except for SWL's only.

DXLCA—DX LISTENERS' CENTURY AWARD.

For SWL's only. 100 different countries confirmed as per RSGB Countries list.

CDXC—COMMONWEALTH DX CERTIFICATE.

Confirmations required from 50 Commonwealth call areas on 14 mcs in addition with at least 50 call areas on bands other than 14 mcs, making a total of 100 call areas. A most attractive certificate.

FRENCH AWARDS:

For information on DDFM, DUF, DTA, DTC, DPF write to REF, 69 bd de Bercy, Paris 12 (with 1 IRC) for full information bulletin. (This can be obtained on loan from Awards Manager ZL2GX).

(Applications for above can be certified by Awards Manager).

"CQ" MAGAZINE AWARDS

(Full rules appear in CQ Magazine for January 1969).

WAZ—WORKED ALL ZONES (see CQ WAZ map in Call Book).

Confirmations required from each of the 40 zones (zone numbers are indicated beside countries in the countries checking list in this call book). Check list with full QSO data can be certified by NZART Awards Manager. Cost 8 IRC or \$1 US.

N.B. WAZ now available as a separate award for each band.

WPX—WORKED PREFIXES.

Use special application form available from NZART Awards Manager. Certificates issued for MIXED-400; CW-300; PHONE 300; SSB 200 with endorsements for each additional 50 prefixes. Band endorsements available as follows—1.8 mcs 35; 3.5 mcs 150; 7 mcs 250; 14 mcs 300; 21 mcs 300; 28 mcs 250. Continental endorsements available as follows: North America 126; South America 88; Europe 146; Africa 80; Asia 68; Oceania 51. Cost 8 IRC or \$1 US.

SSB DX AWARD.

Use special application form available from NZART Awards Manager. Certificates issued for 100 different countries and endorsements for 150, 200, 275, 300, 310, 320 as well as Low Band Endorsement for 100 or more countries using any combination of 80 and 40 and 28mcs endorsement for 100 or more countries on this band. Usual rules apply and DXCC List, but deleted countries do not count. Cost is \$1 or 8 IRC.

CW DX AWARD

Rules as for SSB Award above except that all contacts must be CW.

NOTE: All CQ awards can be certified by NZART Awards Manager.

ARRL AWARDS

WAS—WORKED ALL STATES

Send checking list with confirmations from the 50 States of the USA direct to ARRL. (Also 5 Band WAS).

DX CENTURY CLUB (DXCC)

The American Radio Relay League will issue the DX Century Club Certificate to any amateur who has worked and confirmed contact with 100 countries or more since 15th November, 1945. Endorsement stickers are provided for every 20 confirmed countries in excess of the 100 required for the initial award.

In addition a special PHONE DXCC Certificate is available to those who submit 100 confirmations for contacts on phone. In this case it is permissible for the station being contacted to be on CW (i.e., phone to CW contacts are permissible). Endorsement stickers are also available for phone DXCC.

Note that all the rules normally applying to contests and awards apply to DXCC aspirants; operating ethics must be of a high standard; "land stations" only are eligible; stations must be contacted from the same area (radius of 150 miles); eligible countries are those listed elsewhere in this booklet.

Every month QST lists those amateurs who have been awarded certificates.

Applications should be posted direct to Communications Department, ARRL, 225 Main Street, Newington, Conn., USA, with sufficient postage for return of cards by first class registered mail. N.B.—Include checking list with cards. No charge.

5BDXCC FIVE BAND DXCC

Confirmations required from 100 different countries on FIVE different bands, with contacts to have been made on January 1, 1969 or since. Phone and/or CW may be used. Applications for 5BDXCC will be accepted only on a special form which costs \$10 US (this charge also covers return postage charges on QSL's).

THE AMATEUR'S CODE

ONE

The Amateur is Gentlemanly He never knowingly uses the air for his own amusement in such a way as to lessen the pleasure of others. He abides by the pledges given by the ARRL in his behalf to the public and the Government.

TWO

The Amateur is Loyal He owes his amateur radio to the American Radio Relay League, and he offers it his unswerving loyalty.

THREE

The Amateur is Progressive He keeps his station abreast of science. It is built well and efficiently. His operating practice is clean and regular.

FOUR

The Amateur is Friendly Slow and patient sending when requested, friendly advice and counsel to the beginner, kindly assistance and co-operation for the broadcast listener; these are marks of the amateur spirit.

FIVE

The Amateur is Balanced Radio is his hobby. He never allows it to interfere with any of the duties he owes to his home, his job, his school, or his community.

SIX

The Amateur is Patriotic His knowledge and his station are always ready for the service of his country and his community.

—PAUL M. SEGAL

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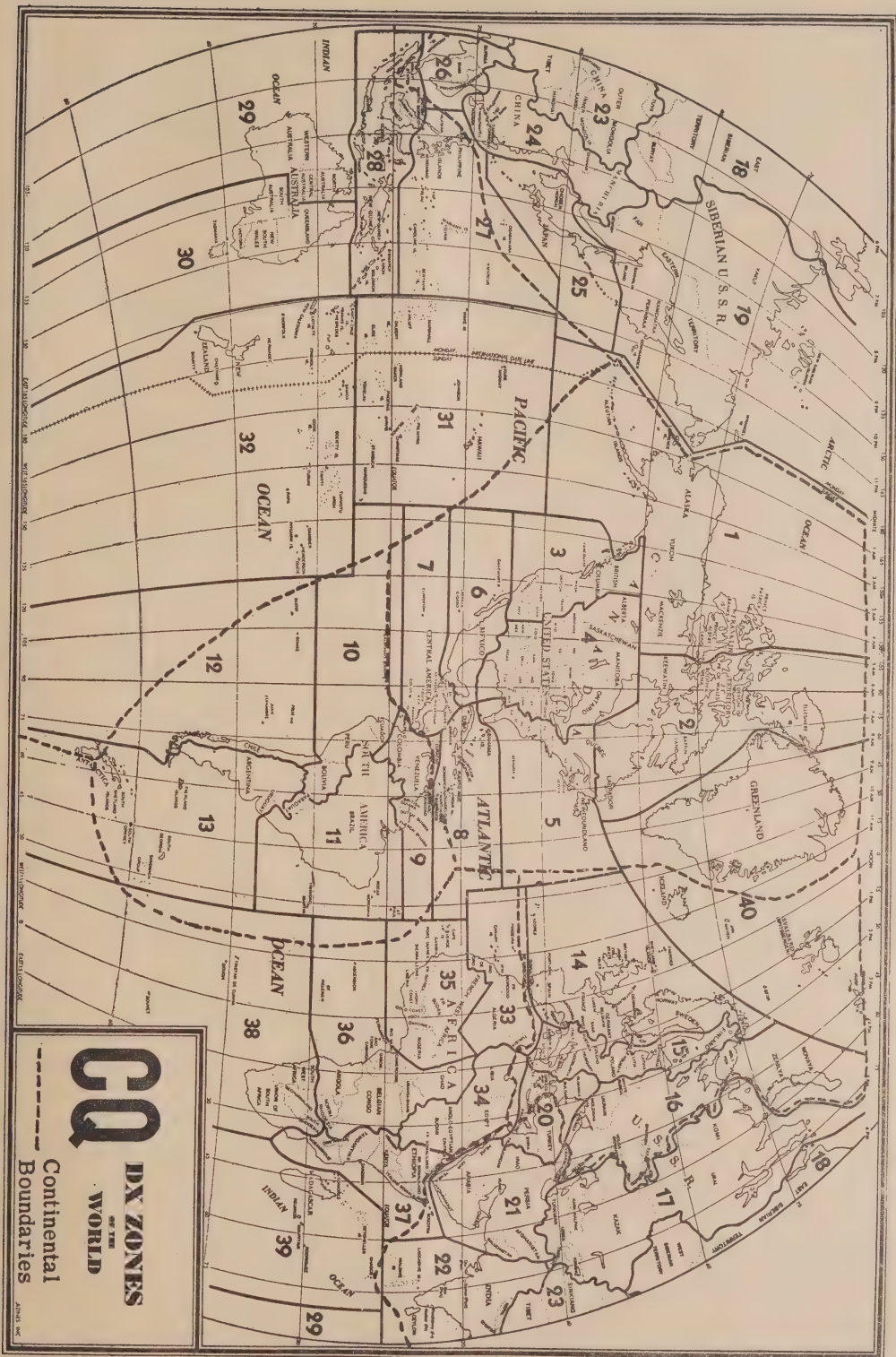
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student and the professional are all catered for in authoritative "teach-ins" in virtually every issue. Even the advertisement pages are fascinating for the way they unfold a story of continuing development in the application of radio and electronics to everyday life.

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A.R.R.L. COUNTRIES LIST . . .

The ARRL Postwar Countries List is the official standard used in connection with the DX Century Club. From time to time, changes in the list are made. Space is provided at the bottom of each page to allow for new additions. Changes are announced under DXCC Notes in QST.

A2 (See ZS9)	Botswana	FC (unofficial)	Corsica	I, IT	Italy
A3 (See VR5)		FD (See 5V)		II ¹² (deleted)	Trieste
AC3	Sikkim	FE8 (See TJ)		I5 ¹⁸ (deleted)	Italian Somaliland
AC4	Tibet	FF4 (See TU)		IS, IM	Sardinia
A5 (AC5)	Bhutan	FF7 (See 5T)		JA, JH, KA, JR, JE	Japan
AP, S2-3	East Pakistan	FF8 (See TY)		JD, KG6I, KA1 ⁴⁴	Ogasawara Is.
AP	West Pakistan	FF8 (See TZ)		JD, KG6I, KA1 ⁴⁵	Minami Is.
BV, (C3)	Formosa	FF8 (See 5U7)		JT1	Mongolia
BY, (C)	China	FF8 (See XT)		JX (LA-P)	Jan Mayen
C2 (See VK9)	Rep. of Nauru	FF8 (See 6W8)		JY	Jordan
C3 (See PX)		FF8 ⁹ (deleted)	Fr. West Africa	JW (LA-P)	Svalbard
C9 ¹ (deleted)	Manchuria	FG7	Guadeloupe	JZ0 ¹⁴ (deleted)	Neth. New Guinea
CE	Chile	FH8, FB8	Comoro Islands	K, W.	United States of America
CE9AA-AM, FB8Y, KC4, LA, LU-		FI8 ⁷ (deleted)	Fr. Indo-China	KA (See JA)	
Z, OR4, UA1, VK0, VP8, ZL5,		FK8	New Caledonia	KA1 (See JD) (KG6I)	
8J	Antarctica	FL8	Fr. Somaliland	KA6 (See KR6-8)	
CE9AN-AZ (See VP8)		FM7	Martinique	KB6	Baker, Howland & American Phoenix Islands
CE0A	Easter Island	FN ⁸ (deleted)	Fr. India	KC4 (See CE9AA-AM)	
CE0Z	Juan Fernandez	FO8	Clipperton Island	KC4	Navassa Island
CE0X	San Felix	FO8	Fr. Oceania	KC6	Eastern Caroline Isls.
CM, CO	Cuba	FP8	St. Pierre & Miquelon Is.	KC6	Western Caroline Isls.
CN2 ² (deleted)	Tangier	FQ8 (See TL)		KG1 (See OX)	
CN2, 8, 9	Morocco	FQ8 (See TT)		KG4	Guantanamo Bay
CP	Bolivia	FQ8 (See TN)		KG6	Guam
CR3, 5	Portuguese Guinea	FQ8 (See TR)		KG6I (See JD)	
CR4	Cape Verde Islands	FQ8 ⁹ (deleted)	Fr. Equat. Africa	KG6R, S, T	Mariana Islands
CR5	Principe, Sao Thome	FR7 ¹⁰	Glorioso Islands	KH6	Hawaiian Islands
CR6	Angola	FR7 ¹¹	Juan de Nova	KH6	Kure Island
CR7	Mozambique	FR7	Reunion	KJ6	Johnston Island
CR8 ⁸ (deleted)	Damao, Diu	FR7	Tromelin	KL7	Alaska
CR8 ⁴ (deleted)	Goa	FS7	Saint Martin	KM6	Midway Islands
CR8, CR10	Portuguese Timor	FU8, YJ	New Hebrides	KP4	Puerto Rico
CR9	Macao	FW8	Wallis & Futuna Islands	KP6	Palmyra Group, Jarvis Is.
CT1	Portugal	FY7	Fr. Guiana & Inini	KR6, 8 ⁴⁹ (deleted)	Ryukyu Islands
CT2	Azores	G	England	KS4B, HK0	Serrana Bank & Roncador Cay
CT3	Madeira Islands	GC	Guernsey & Dependencies	KS4 ⁵⁰ (deleted)	Swan Islands
CX	Uruguay	GC	Jersey Island	KS6	American Samoa
D, Germany, Democratic Republic		GD	Isle of Man	KV4	Virgin Islands
D, Germany, Federal Republic		GI	Northern Ireland	KW6	Wake Island
DU, DX	Philippine Islands	GM	Scotland	KX6	Marshall Islands
EA	Spain	GW	Wales	KZ5	Canal Zone
EA6	Balearic Islands	HA, HG	Hungary	LA-G (See 3Y)	
EA8	Canary Islands	HB	Switzerland	LA-P, (See JX, JW)	
EA9 ⁴⁶ (deleted)	Ifni	HB0, HE	Liechtenstein	LA, LG	Norway
EA9	Rio de Oro	HC	Ecuador	LA-P, JW (See JW)	
EA9	Spanish Morocco	HC8	Galapagos Islands	LA (See CE9AA-AM)	
EA0 (See 3C)	(Ceuta & Melilla)	HE (See HB0)		LU	Argentina
EI	Republic of Ireland	HH	Haiti	LU-Z (See CE9AA-AM)	
EL	Liberia	HI	Dominican Republic	LX	Luxembourg
EP	Iran	HK	Colombia	LZ	Bulgaria
ET2 ⁵ (deleted)	Eritrea	HK0	Bajo Nuevo	M1 (See 9A1)	
ET3, 9F, 9F	Ethiopia	HK0	Malpelo Is.	MP4B	Bahrein
F	France	HK0	San Andres & Providencia	MP4Q	Qatar
FA (See 7X)		HK0 (See KS4B)		MP4M, VS90	Sultanate of Muscat & Oman
FB8Z	Amsterdam & St. Paul Is.	HL, HM	Korea		
FB8Y (See CE9AA-AM)		HP	Panama		
FB8W	Crozet Is.	HR	Honduras		
FB8X	Kerguelen Islands	HS	Thailand		
FB8 (See FH8)		HT (See YN)			
FB8 (See 5R8)		HV	Vatican		
FB8 (See FR7)		HZ, 7Z	Saudi Arabia		

MP4D, T	Trucial Oman	UM8, UK8M, N	Kirghiz	VR3	Fanning & Christmas Isls.
OA	Peru	UN1 (deleted)	Karelo Finnish Rep.	VR4	Solomon Islands
OD5	Lebanon	UO5, UK50	Moldavia	VR5 (A3)	Tonga Islands
OE	Austria	UP2, UK2B/P	Lithuania	VR6	Pitcairn Island
OH, OF	Finland	UQ2, UK2G/Q	Latvia	VS1, 9M4, 9V1 ²⁷	Singapore
OH0	Aland Islands	UR2, UK2R/T	Estonia	VS1, 9M2 (See 9M2, 4)	
OJ0	Market	VE, VO	Canada	VS2 (See 9M2)	
OK	Czechoslovakia	VK	Australia (Inc. Tasmania)	VS4 ²⁸ (deleted)	Sarawak
ON	Belgium	VK	Lord Howe Island	VS4, ZC5 (See 9M6, 8)	
OQ5, 0 (See 9Q5)		VK4	Willis Islands	VS5	Brunei
OR4 (See CE9AA-AM)		VK9X, ZC3	Christmas Island	VS6	Hong Kong
OX, KG1, XP	Greenland	VK9Y	Cocos Islands	VS9A, VS9P, VS9S; 70	
OY	Faroe Islands	VK9 (See C2)			South Yemen
OZ	Denmark	VK9N	Norfolk Island	VS9H ⁴⁷ (deleted)	Kuria Muria Is.
PA, PE, PI, PD	Netherlands	VK9AA-MZ	Papua Territory	VS9K	Kamran Is.
PJ	Neth. Antilles	VK9AA-MZ	Territory of New Guinea	VS9M (See 8Q)	
PJ	Sint Maarten			VS9O (See MP4M)	
PK (See 8F)		VK9	Melish Reef	VU	Andaman & Nicobar Isls.
PK1, 2, 3 ¹⁵ (deleted)	Java	VK0 (See CE9AA-AM)		VU	India
PK4 ¹⁵ (deleted)	Sumatra	VK0	Heard Island	VU	Laccadive Islands
PK5 ¹⁵ (deleted)	Neth. Borneo	VK0	Macquarie Island	W (See K)	
PK6 ¹⁵ (deleted)	Celebes & Molucca Isls.	VO (See VE)		XE, XF, 4A, 6D	Mexico
PX, C3	Andorra	VO ²⁴ (deleted)	Newfoundland, Labrador	XF4, 6D4	Revilla Gigedo
PY	Brazil			XP (See OX)	
PY0	Fernando de Noronha	VP1	British Honduras	XT ³⁰	Voltaic Rep.
PY0	St. Peter & St. Paul's Rocks	VP2K ²⁵ (E)	Anguilla	XU	Cambodia
PY0	Trinidad & Martin Vaz Is.	VP2A ²⁵	Antigua, Barbuda	XV5 (See 3W8)	
PZ	Surinam	VP2V ²⁵	British Virgin Islands	XW8	Laos
SL, SM, SK	Sweden	VP2D ²⁵	Dominica	XZ2	Burma
SP, 3Z	Poland	VP2G ²⁵	Grenada & Dependencies	YA	Afghanistan
ST2	Sudan	VP2M ²⁵	Montserrat	YB (See 8F)	
SU	Egypt	VP2K ²⁵ (E)	Anguilla	YI	Iraq
SV	Crete	VP2L ²⁵	St. Lucia	YJ (See FU8)	
SV	Dodecanese	VP2S ²⁵	St. Vincent & Dependencies	YK	Syria
SV	Greece			YN, YN0, HT	Nicaragua
SY	Mount Athos	VP3 (See 8R)		YO	Rumania
S2-3 (See AP)		VP4 (See 9Y4)		YS	Salvador
TA	Turkey	VP5 (See ZF1)		YU, YT	Yugoslavia
TF	Iceland	VP5 (See 6Y5)		YV, 4M	Venezuela
TG	Guatemala	VP5	Turks & Caicos Islands	YV0	Aves Island
TI	Costa Rica	VP6 (See 8P)		ZA	Albania
TI9	Cocos Island	VP7	Bahama Islands	ZB1 (See 9H1)	
TJ, FE8	Cameroun	VP8 (See CE9AA-AN)		ZB2	Gibraltar
TL ¹⁶	Central African Rep.	VP8	Falkland Islands	ZC3 (See VK9)	
TN ¹⁷	Congo Rep.	VP8, LU-Z	So. Georgia Is.	ZC4 (See 5B4)	
TR ¹⁸	Gabon Rep.	VP8, LU-Z	So. Orkney Is.	ZC5 (See 9M6, 8)	
TT ¹⁹	Chad Rep.	VP8, LU-Z	So. Sandwich Is.	ZC5 ²⁸ (deleted)	British N. Borneo
TU ²⁰	Ivory Coast	VP8, LU-Z, CE9AN-AZ	So. Shetland Is.	ZC6 ³¹ (deleted)	Palestine
TY ²¹	Dahomey Rep.	VP9	Bermuda Islands	ZD1 (See 9L1)	
TZ ²²	Mali Rep.	VQ1, 5H1	Zanzibar	ZD2 (See 5N2)	
UA, UK1, UK3, UK4, UV, UW1-6, UN1—European Russian S.F.S.R.		VQ2 (See 9J2)		ZD3	The Gambia
UA1	Franz Josef Land	VQ3 (See 5H3)		ZD4 (See 9G1)	
UA1 (See CE9AA-AM)		VQ4 (See 5Z4)		ZD4 ³² (deleted)	Gold Coast
UA2, UK2F	Kaliningradsk R.S.F.R.	VQ5 (See 5X5)			Togoland
UA, UK9, UV, UW9, 0	Asiatic R.S.F.R.	VQ6 ²⁸ (deleted)	British Somaliland		Swaziland
UB5, UK5, UT5, UY5	Ukraine	VQ8, 3B6-7	Agalega & St. Brandon	ZD5, ZS7, 3D6	
UC2, UK2A/C/I/L/O/S/W	White R.S.S.R.	VQ8, 9	Chagos Islands	ZD6 (See 7Q7)	
UD6, UK6/D/K	Azerbaijan	VQ8, 3B8	Mauritius	ZD7	St. Helena
UF6, UK6F/O/Q/V	Georgia	VQ8, 3B9	Rodriguez Island	ZD8	Ascension Island
UG6, UK6G	Armenia	VQ9	Aldabra	ZD9	Tristan da Cunha & Gough Island
UK8, UK8H	Turkoman	VQ9	Desroches	ZE	Rhodesia
UI8, UK8	Uzbek	VQ9	Farquhar	ZF1, VP5	Cayman Islands
UJ8, UK8J/R	Tadzhik	VQ9	Seychelles	ZK1	Cook Islands
UL7, UK7	Kazakh	VR1	British Phoenix Islands	ZK1	Manihiki Islands
		VR1	Gilbert & Ellice Isls. & Ocean Island	ZK2	Niue
		VR2, 3D2	Fiji Islands	ZL/A	Auckland & Campbell Isls.
				ZL/C	Chatham Islands
				ZL/K	Kermadec Islands
				ZL, ZM	New Zealand

ZL5 (See CE9AA-AM)
 ZM6 (See 5W1)
 ZM7 Tokelau
 ZP Paraguay
 ZS1, 2, 4, 5, 6 South Africa
 ZS2 Prince Edward &
 Marion Islands
 ZS3 Southwest Africa
 ZS7 (See ZD5)
 ZS8, 7P8 (See 7P8)
 1M⁶¹ (deleted) Minerva Reefs
 1S (unofficial) Stratly Is.
 3A Monaco
 3B (See VQ8)
 3C (See EA0) Equatorial Guinea
 3C0 Annobon
 3D2 (See VR2)
 3D6 (See ZD5)
 3V8 Tunisia
 3W8, XV5 Vietnam
 3X, (7G) Rep. of Guinea
 3Y, LA-G Bouvet Is.
 3Z (See SP)
 4A (See XE)
 4M (See YV)
 4S7 Ceylon
 4U I.T.U. Geneva
 4W Yemen

4X, 4Z Israel
 5A Libya
 5B4, ZC4 Cyprus
 5H1 (See VQ1)
 5H3, VQ3 Tanganyika
 5N2, ZD2 Nigeria
 5R8, FB8 Malagasy Rep.
 5T⁸⁸ Mauritania
 5U7⁸⁴ Niger Rep.
 5V Togo Rep.
 5W1, ZM6 Somoa
 5X5, VQ5 Uganda
 5Z4, VQ4 Kenya
 6D (See XE)
 6O1, 2, 6 Somali Rep.
 6W8, FF8⁸⁸ Senegal Rep.
 6Y5, VP5 Jamaica
 7G1 (see 3X)
 70 (See VS9A)
 7P8, ZS8 Lesotho
 7Q7, ZD6 Malawi
 7X, FA Algeria
 7Z (See HZ)
 8F, PK, YB⁸⁸ Indonesia
 8J (See CE9AA-AM)
 8P, VP6 Barbados
 8Q, VS9M Maldive Islands
 8R, VP3 Guyana
 8Z4 Saudi Arabia/Iraq

Neutral Zone
 8Z5 (See 9K3)
 9A1 (M1) San Marino
 9E, 9F (See ET3)
 9G1, ZD4⁸⁷ Ghana
 9H1, ZB1 Malta
 9J2, VQ2 Zambia
 9K2 Kuwait
 9K3, 8Z5⁴⁸ Kuwait/Saudi Arabia
 Neutral Zone
 9L1, ZD1 Sierra Leone
 9M2⁸⁸ (deleted) Malaya
 9M2, 4⁸⁸ West Malaysia
 9M4 (See VS1)
 9M6, 8⁸⁸ East Malaysia
 9N1 Nepal
 9Q5, OQ5, 0 Rep. of Congo
 9S4⁸⁹ (deleted) Saar
 9U5⁴⁰ Burundi
 9U5⁴¹ (deleted) Ruanda-Urundi
 9V1 (See VS1)
 9X5⁴⁰ Rwanda
 9Y4, VP4 Trinidad & Tobago
 — Abu Ali; Jabal at Tair
 —⁴⁸ Blenheim Reef
 —⁴⁸ Geyser Reef
 — (deleted) Maria Theresa

IMPORTANT DXCC NOTES

(1) Only contacts dated before September 16, 1963 will count for this country.

(2) Only contacts dated before July 1, 1960 will count for this country.

(3) Only contacts dated before January 1, 1962 will count for this country.

(4) Only contacts dated before January 1, 1962 will count for this country.

(5) Only contacts dated November 14, 1962 or before will count for this country.

(6) Only contacts dated August 6, 1960 or before will count for this country.

(7) Only contacts dated before December 21, 1950 will count for this country.

(8) Only contacts dated before November 1, 1954 will count for this country.

(9) Only contacts dated August 16, 1960 or before will count for this country.

(10) Only contacts dated June 25, 1960 or after will count for this country.

(11) Only contacts dated June 25, 1960 or after will count for this country.

(12) Only contacts dated before April 1, 1957 will count for this country. April 1, 1957 and after count as Italy.

(13) Only contacts dated June 30, 1960 or before will count for this country.

(14) Only contacts dated before May 1, 1963 will count for this country.

(15) Only contacts made before May 1, 1963 will count for this country.

(16) Only contacts dated August 13, 1960 or later will count for this country.

(17) Only contacts dated August 15, 1960 or later will count for this country.

(18) Only contacts dated August 17, 1960 or later will count for this country.

(19) Only contacts dated August 11, 1960 or later will count for this country.

(20) Only contacts dated August 7, 1960 or later will count for this country.

(21) Only contacts dated August 1, 1960 or after will count for this country.

(22) Only contacts dated June 20, 1960 or later will count for this country.

(23) Only contacts dated June 30, 1960 or before will count for this country. July 1, 1960 and after count as European Russian S.F.S.R.

(24) Newfoundland/Labrador DXCC credit will be given if VO contact was made prior to April 1, 1949.

(25) All contacts with VP2 stations made prior to June 1, 1958 will be credited for DXCC on basis of Windward Islands and Leeward Islands only. Effective from June 1, 1958 contacts made with stations in what was previously listed as Leewards and Windwards will be credited on the following basis. If credit has already been given for a station in the Leewards, further credit cannot be given for that particular island. For example, if Leewards credit was obtained with VP2MY in Montserrat, no further credit can be claimed for Montserrat. A credit given for VP2LU on St. Lucia towards Windwards will count as St. Lucia and no further credit can be claimed for St. Lucia. On the other hand, a contact with VP2KM made on June 1, 1958 or after, can be claimed as credit for St. Kitts or a contact with VP2GC made on June 1 or after can be claimed as credit for Grenada.

The islands are classified as follows:—
Leewards: Anguilla; Antigua and Barbuda; Br. Virgins; Dominica; Montserrat; St. Kitts, Nevis.

Windwards: St. Lucia; St. Vincent; Grenada and Dependencies.

(26) Only contacts dated June 30, 1960 or before will count for this country.

(27) Only contacts dated September 15, 1963 or before and after August 8, 1965 will count for this country.

(28) Only contacts dated September 15, 1963 or before will count for this country.

(29) Only contacts made before November 29, 1967 will count for this country; contact made December 1, 1967 or after counts as Muscat and Oman.

(30) Only contacts dated August 6, 1960 or later will count for this country.

(31) Only contacts dated July 1, 1968 or before will count for this country.

(32) Only contacts dated March 5, 1957 or before will count for this country.

(33) Only contacts dated June 20, 1960 or later will count for this country.

(34) Only contacts dated August 3, 1960 or later will count for this country.

(35) Only contacts dated June 20, 1960 or after will count for this country.

(36) Only contacts dated May 1, 1963 or later will count for this country.

(37) Only contacts dated March 5, 1957 or after will count for this country.

(38) Only contacts dated September 16, 1963 or later will count for this country.

(39) Only contacts dated before April 1, 1957 will count for this country; after this date will count as Germany.

(40) Only contacts dated July 1, 1962 or after will count for this country.

(41) Only contacts made between July 1, 1960 and July 1, 1962 will count for this country.

(43) Only contacts made after May 4, 1967 will count for this country.

(44) Formerly Bonin and Volcano Is.

(45) Formerly Marcus Is.

(46) Only contacts dated 13 May 1969 or before will count for this country.

(47) Only contacts dated before 29 November 1967 will count. Contacts after 1 December 1967 count as Muscat and Oman.

(48) Contacts prior to 18 December 1969 count for DXCC but not for Honor Roll!

(49) Contacts prior to 15 May, 1972, count for this country. After this date credit for Japan.

(50) Contacts prior to 1 September, 1972, count for this country. After this date credit for Honduras.

(51) Contacts prior to 16 May, 1971, count for this country. From this date credit for Tonga.

PREFIXES BY COUNTRIES

This is **NOT** a DXCC checking list. It **IS** an alphabetical listing of areas with Zones and Prefixes. Use the Official DXCC List for "Countries Worked" total.

Adelie Land (O-30)	FB8YY	British Honduras (NA-7)	VP1	Egypt (AF-34)	SU
Aden (South Yemen) (A-21)	VS9	British Phoenix Is. (O-31)	VR1	Eire (E-14)	EI
Afghanistan (A-21)	YA	Brunei (O-28)	VS5	Ellice Is. (see Gilbert Is.)	
Agalega Is. and St. Brandon (AF-39)	VQ8	Bulgaria (E-20)	LZ	El Salvador (NA-7)	YS
Aland Is. (E-15)	OH0	Burma (A-26)	XZ	Enderbury Is. (O-31)	KB6
Alaska ((NA-1)	KL7	Burundi (AF-36)	9U5	England (E-14)	G
Albania (E-15)	ZA	Cambodia (A-26)	XU	Ethiopia (AF-37)	9E, 9F, ET3
Aldabra Is. (AF-39)	VQ9	Cameroun (AF-36)	TJ	Faeroe Is. (E-14)	OY
Algeria (AF-33)	7X	Campbell Is. (O-32)	ZL4	Falkland Is. (SA-13)	VP8
Amsterdam and St. Paul Is. (AF-39)	FB8	Canada (NA-1 to 5)	VE, 3C	Fanning Is. (Christmas) (O-31)	CR3
Andaman and Nicobar Is. (A-26)	VU5	Canal Zone (NA-7)	KZ5	Farquhar Is. (AF-39)	VQ9
Andorra (E-14)	PX1	Canary Is. (AF-33)	EA8	Fernando de Noronha (SA-11)	PY7
Angola (AF-36)	CR6	Canton Is. (O-31)	KB6	Fiji Is. (O-32)	VR2
Annohon (A.F-36)	3C0	Cape Verde Is. (AF-35)	CR4	Finland (E-15)	OH
Antarctica CE9, KC4AA, KC4US, 3Y, LU-/Z, OR4, UA1, VK0, VP8, (Various Zones), ZL5, 8J1		Caroline Is. (O-27)	KC6	Formosa (see Taiwan)	
Antigua, Barbuda (NA-8)	VP2A	Cayman Is. (NA-8)	ZF1	Franz Josef Land (E-40)	UA1
Anguilla (NA-8)	VP2K	Celebes and Molucca Is. (O-28)	8F6	France (E-14)	F
Argentina (SA-13)	LU	Central African Rep. (AF-36)	TL8	French Polynesia (O-32)	FO8
Armenia (A-21)	UG6	Ceutam Melilla, Span. (A-33)	EA9	Gabon (AF-36)	TR8
Aruba (Neth. Antilles) (NA-9) ..	PJ	Ceylon (A-22)	4S7	Galapagos Is. (SA-10)	HC8
Ascension Is. (AF-36)	ZD8	Chad (AF-36)	TT8	Gambia (AF-35)	ZD3
Austral and French Antarctic (A-39)	FB8	Chagos Is. (AF-39)	VQ8, 9	Georgia (A-21)	UG6
Australia (O-29 and 30)	VK	Channel Is. (E-14)	GC	German Federal Rep. West (E-14)	DJ, DK, DL
Austria (E-15)	OE	Chatham Is. (O-32)	ZL3	German Dem. Rep. East (E-14)	DA, DJ, DK, DL
Aves Is. (NA-8)	YV0	Chile (SA-12)	CE	Ghana (AF-35)	9G1
Azerbaijan (A-21)	UD6	China (A-23 and 24)	BY	Gibraltar (E-14)	ZB2
Azores Is. (E-14)	CT2	Christmas Is. (O-29)	VK9	Gilbert Is. (O-31)	VR1
Bahama Is. (NA-8)	VP7	Clipperton Is. (NA-7)	FO8	Goa (A-22)	CR8
Bahrain Is. (A-21)	MP4B	Cocos Is. (NA-7)	TI9	Glorieuses Is. (AF-39)	FR7
Bajo Nuevo (NA-8)	HK0	Cocos-Keeling Is. (O-29)	VK9	Grenada (NA-8)	VP2G
Basutoland (see Lesotho)		Colombia (SA-9)	HK	Gough Is. (see Tristan)	
Bear Is. (see Svalbard)		Comoro Is. (AF-39)	FH8	Graham Land (SA-13)	VP8
Baker Is. (O-13)	KB6	Congo, Rep. of (AF-36)	TN8	Greece (E-20)	SV
Balearic Is. E-14)	EA6	Congo, Rep. of (AF-36)	9Q5	Greenland (NA-40)	OX
Barbados Is. (NA-8)	VP6	Cook Is. (O-32)	ZK1	Guadeloupe Is. (NA-8)	FG7
Belgium (E-14)	ON	Corsica (E-15)	FC	Guantanamo Bay (NA-8)	KG4
Bermuda Is. (NA-5)	VP9	Costa Rica (NA-7)	TI	Guam (O-27)	KG6
Bhutan (A-22)	AC5	Crete (E-20)	SV	Guatemala (NA-7)	TG
Bolivia (SA-10)	CP	Crozet Is. (AF-39)	FB8	Guiana, French (SA-7)	FY7
Bonaire Is. (Neth. Antilles) (NA-9)	PJ	Cuba (NA-8)	CM, CO	Guinea, Portuguese (AF-35)	CR3
Bonin and Volcano Is. (O-27)	KG6I	Curacao (Neth. Antilles) (NA-9) ..	PJ	Guinea, Rep. of (AF-35)	7G1
Bouvet Is. (AF-38)	LA, etc.	Cyprus (A-20)	5B4, ZC4	Guyana (SA-9) (VP3)	8R
Borneo (O-28)	8F5	Czechoslovakia (E-15)	OK	Haiti (NA-8)	HH
Botswana (Bechuanaland) (AF-38)	A2, ZS9	Dahomey (AF-35)	TY	Hawaii (O-31)	KH6
Brazil (SA-11)	PY	Das Is. (A-21)	MP4D	Heard Is. (O-39)	VK0
		Denmark (E-14)	OZ	Honduras (NA-7)	HR
		Desroches Is. (AF-39)	VQ9	Hong Kong (A-24)	VS6
		Dominica (NA-8)	VP2D	Howland Is. (O-31)	KB6
		Dodecanese Is. (E-20)	SV5	Hungary (E-15)	HA, HG
		Dominican Rep. (NA-8)	HI	Iceland (E-40)	TF
		Easter Is. (SA-12)	CE0A	Ifni (AF-33)	EA9
		Ebon Atoll (O-31)	??		
		Ecuador (SA-10)	HC		

India (A-22)	VU	Marcus Is. (A-27)	KG6I	Rodriguez Is. (AF-39)	VQ8
Indonesia (O-28)	YB, 8F	Mariana Is. (O-27)	KG6	Rumania (E-20)	YO
Iran (A-21)	EP, EQ	Marion Is. (AF-38)	ZS2	Rwanda (AF-36)	9X5
Iraq (A-21)	YI	Maria Theresa (O-32)	FO8M	Ryukyu Is. (A-25)	KR6, KR8
Iraq/Saudi Neutral Zone		Market Is. (E15)	OJ0	Saba Is. (NA-8)	PJ(S)
(A-21)	8Z4	Marquesas (O-31)	FO8	Sabah (Nth. Borneo) (O-28)	9M6
Ireland, Northern (E-14)	GI	Marshall Is. (O-31)	KX6	Saint Helena Is. (AF-36)	ZD7
Ireland, Republic (E-14)	EI	Martinique (NA-8)	FM7	Saint Maarten Is. (NA-8)	PJ2M
Isle of Man (E-14)	GD	Mauritania (AF-35)	5T5	Saint Martin Is. (NA-8)	FS7
Israel (A-20)	4X4, 4Z4	Mauritius Is. (AF-39)	VQ8	St. Brandon (AF-39)	VQ8
Italy (E-15)	I	Mellish Reef (030)	VK9	St. Kitts and Nevis (NA-8)	VP2K
Ivory Coast (AF-35)	TU2	Mexico (NA-6)	4A, XE, XF	St. Lucia (NA-8)	VP2L
Jamaica (NA-8)	6Y5	Midway Is. (O-31)	KM6	St. Vincent (NA-8)	VP2S
Jan Mayen Is. (E-40)	JX	Minerva Reef (O-32)	1M	St. Peter and St. Paul SA-11)	PY0
Japan (A-25)	JA, JH	Moldavia (E-16)	UO5	St. Pierre and Miquelon Is.	
Jarvis Is. (Palmyra) (O-31)	KP6	Monseratt (NA-8)	VP2M	(NA-5)	FP8
Java (O-28)	8F1, 2, 3	Monaco (E-14)	3A2	Samoa (U.S.) (O-32)	KS6
Johnston Is. (O-31)	KJ6	Mongolia (A-23)	JT1	Samoa, Western (O-32)	5W1
Jordan (A-20)	JY	Morocco (AF-33)	CN	San Andres and Providencia	
Juan Fernandez Is. (SA-12)	CE0Z	Mozambique (AF-37)	CR7	(NA-7)	HK0
Juan de Nova (AF-39)	FR7	Muscat and Oman (A-21)	MP4M	San Marino (E-15)	M1, 9A1
Kaliningradsk (E-15)	UA2	Nauru Is. (O-31)	VK9	Sao Tome and Principe Is.	
Kazakh (A-17)	UL7	Navassa Is. (NA-8)	KC4	(A-36)	CR5
Kirghiz (A-17)	UM8	Nepal (A-22)	9N1	Sarawak (O-28)	9M8
Kamaran Is. (A-21)	VS9K	Netherlands (E-14)	PA, PI	Sardinia (E-15)	IS
Kenya (AF-37)	5Z4	Netherlands Antilles (SA-9)	PJ	Saudia Arabia (A-21)	HZ, 7Z
Kerguelen Is. (AF-39)	FB8	Neth. New Guinea (W. Iran)		Scotland (E-14)	GM
Kermadec Is. (O-32)	ZL1	(O-28)	JZ0	Senegal (AF-35)	6W8
Korea (A-25)	HM, HL9	New Caledonia (O-32)	FK8	Serrana Bk. and Roncador Cay	
Kuwait (A-21)	9K2	Newfoundland (NA-5)	VO1, 3B1	(NA-7)	KS4B
Kuwait/Saudi Neutral Zone		New Guinea, N.E. (O-28)	VK9	Seychelles Is. (AF-39)	VQ9
(A-21)	8Z5	New Hebrides (O-32)	FU8, YJ	Sri Lanka (E-15)	IT
Kure Is. (O-31)	KH6	New Zealand (O-32)	ZL	Sri Lanka Leone (AF-35)	9L1
Kuria Muria (A-21)	VS9H	Nicaragua (NA-7)	YN	Sikkim (A-22)	AC3
Labrador (NA-2)	VO2, 3B2	Nicobar Is. (see Andaman Is.)		Singapore (A-28)	9V1
Laccadive Is. (A-22)	VU4	Niger (AF-35)	5U7	Socotra Is. (AF-37)	VS9
Laos (A-26)	XW8	Nigeria (AF-35)	5N2	Socorro (see Revilla G.)	
Lebanon (A-20)	OD5	Niue Is. (O-32)	ZK2	Solomon Is. (O-28)	VR4
Leeward Is. (Br. W. Indies)		Norfolk Is. (O-32)	VK9	Somali Republic (AF-37)	60
(NA-8)	VP2	Northern Ireland (E-14)	GI	Somaliland French (AF-37)	FL8
Lesotho (Basutoland) (AF-38)	7P8	Norway (E-14)	LA	South Arabian Federation	
Liberia (AF-35)	EL	Ocean Is. (see Gilbert Is.)		(see Aden)	
Libya (AF-34)	5A	Pakistan (A-21, 22)	AP	South Africa (AF-38)	ZS
Liechtenstein (E-14)	HB0	Palmyra Is. (O-31)	KP6	South Georgia Is. (SA-13)	VP8
Line Is. (O-31)	VR3	Panama (NA-7)	HP	South Orkney Is. (SA-13)	VP8
Little America (SA-13)	KC4	Papua Territory (O-28)	VK9	South Sandwich Is. (SA-13)	VP8
Lithuania (E-15)	UP2	Paraguay (SA-11)	ZP	South Shetland Is.	
Lord Howe Is. (O-30)	VK2	Peru (SA-10)	OA	(SA-13)	CE9, VP8
Luxembourg (E-14)	LX	Philippines (O-27)	DU	South-West Africa (AF-38)	ZS3
Macao (A-24)	CR9	Phoenix Is. (Br.) (O-31)	VR1	South Yemen (Aden) (A21)	
Macquarie Is. (O-30)	VK0	Phoenix Is. (U.S.) (O-31)	KB6	Vs9, 70	
Madeira Is. (AF-33)	CT3	Pitcairn Is. (O-32)	VR6	Soviet Union:	
Malagasy (Madagascar)		Poland (E-15)	SP	European Russian Soviet Feder-	
(AF-39)	5R8	Portugal (E-14)	CT1	ated Socialist Rep.	
Malawi (Nyasaland) (AF-37)	7Q7	Prince Edward and Marion Is.		(E-16)	UA1, 3, 4, 6
Malaysia, Federation of		(AF-38)	ZS2	Asiatic Russian S.F.S.R.	
(A-28)	9M2	Puerto Rico (NA-8)	KP4	(A-18, 19)	UA9, 0
Maldives Is. (A-22)	8Q, VS9M	Qatar (A-21)	MP4Q	Ukrainian S.S.R. (E-16)	UB5
Mali Republic (AF-35)	TZ	Reunion Is. (AF-39)	FR7	White Russian S.S.R.	
Malpelo Is. (NA-9)	HK0	Revillagigedo Is. (NA-6)	XE4	(E-16)	UC2
Malta (E-15)	9H1	Rhodes (see Dodecanese)		Azerbaijdzhan S.S.R.	
Manchuria (A-24)	BY9	Rhodesia, Southern (AF-38)	ZE	(E-21)	UD6
Manihiki Is. (O-32)	ZK1	Rio de Oro (see Sp. Sahara)		Georgian S.S.R. (E-21)	UF6
		Rio Muni (AF-36)	EA0		

Armenian S.S.R. (E-21)	UG6	Tadzhik (A-17)	UJ8	United Nations Geneva (E-14)	4U1
Turkmen S.S.R. (A-17)	UH8	Tahiti (see Fr. Oceania)		U.S.A. (NA-3, 4, 5)	W, K
Uzbek S.S.R. (A-17)	UI8	Taiwan (Formosa) (A-24)	BV	Upper Volta (AF-35)	XT2
Tadzhik S.S.R. (A-17)	UJ8	Tanzania (AF-37)	5H3	Uruguay (SA-13)	CX
Kazakh S.S.R. (A-17)	UL7	Tasmania (O-30)	VK7	Uzbek (A-17)	UI8
Kirghiz S.S.R. (A-17)	UM8	Tchad Republic (AF-36)	TT	Vatican City (E-15)	HV
Karelo-Finnish S.S.R. (E-16)	UN1	Thailand (A-26)	HS	Venezuela (SA-9)	YV
Moldavian S.S.R. (E-16)	UO5	Tibet (A-23)	AC4	Vietnam (A-26)	3W8
Lithianian S.S.R. (E-15)	UP	Timor Is. (Portuguese) (O-28)	CR8	Virgin Is. (U.S.) (NA-8)	KV4
Latvian S.S.R. (E-15)	UQ	Tinian Is. (O-27)	KG6T	Virgin Is. (Br.) (NA-8)	VP2V
Estonian S.S.R. (E-15)	UR	Togo (AF-35)	5V	Volcano and Bonin Is. (A-27)	KG6I
Spain (E-14)	EA	Tokelau Is. (O-31)	ZM7	Wake Is. (O-31)	KW6
Spanish Sahara (Rio de Oro) (A-33)	EA9	Tonga (Friendly) Is. (O-32) A3, VR5		Wales (E-14)	GW
Spitzbergen (see Svalbard)		Trinidad and Martim Vaz Is. (SA-11)	PY0	Wallis and Futuni Is. (O-32) ..	FW8
Spratley Is. (A-26)	1S	Trinidad and Tobago Is. (SA-9)	9Y4	West Irian (O-28)	8F6
Sudan (AF-34)	ST	Tristan de Cunha and Gough Is. (AF-38)	ZD9	White Russia (E-16)	UC2
Sumatra (O-28)	8F4	Tromelin Is. (AF-39)	FB8	Willis Is. (O-30)	VK4
Surinam (Neth. Guiana) (SA-9)	PZ	Trucial Oman (A-21)	MP4T	Windward Is. (Br. W. Indies) (NA-8)	VP2
Svalbard Is. (E-40)	JW	Tunisia (AF-33)	3V8	Yemen (A-21)	4W1
Swan Is. (NA-7)	KS4	Turkey (A-20)	TA, TC	Yugoslavia (E-15)	YT, YU
Swaziland (AF-38)	ZD5	Turks and Caicos Is. (NA-8) ..	VP5	Zambia (N. Rhod.) (AF-36)	9J
Sweden (E-14)	SL, SM	Turkoman (A-17)	UH8	Zanzibar (AF-37)	VQ1
Switzerland (E-14)	HB	Uganda (AF-37)	5X5		
Syria (A-20)	YK				

Q CODE

QRG	Will you indicate my exact frequency in kcs? Your frequency is.....kcs.	QSV	Shall I send a series of VVV? Send a series of VVV.
QRI	Is my note good? Your note varies (is poor).	QSW	Will you send on.....kcs. I will send on.....kcs.
QRK	What is the readability of my signals (1 to 5)? The readability of your signals is..... (1 to 5).	QSY	Shall I send on.....kcs? Send on.....kcs.
QRM	Are you being interfered with? I am being interfered with.	QSZ	Shall I send each word or group twice? Send each word or group twice.
QRN	Are you troubled by atmospherics? I am being troubled by atmospherics.	QTA	Must I cancel nr.....? Cancel nr.....
QRQ	Shall I send faster? Send faster (.....words per minute).	QTC	How many messages have you to send? I have.....messages for you or.....
QRS	Shall I send more slowly? Send more slowly (.....w.p.m.).	QTH	What is your position (latitude or longitude) or by other indications? My position (location) is.....
QRT	Shall I stop sending?	QTR	What is the exact time? The exact time is.....
QRU	Have you anything for me? I have nothing for you.	QRR	A.R.R.L. abbreviation constituting "official land S.O.S."
QRV	Are you ready? I am ready?		A distress call for emergency use only.
QRW	Shall I tell.....that you are calling him (on.....kcs.?). Tell.....that I am calling him (on.....kcs..	QST	General call preceding a message addressed to all amateurs.

ABBREVIATIONS

AA	All after.	N	No.
AB	All before.	PBL	Preamble.
ADR	Address.	SIG	Signature.
AE	Wait.	SVC	Service message.
C	Yes.	TXT	Text.
CL	I am closing station.	WA	Word after.
GA	Go ahead.	WB	Word before.

Only those signals which are considered to have consistent application in the amateur service have been included.

ALLOCATION OF INTERNATIONAL CALL SIGNS

Call Sign	Assigned To	Call Sign	Assigned To
AAA-ALZ	United States of America	LAA-LNZ	Norway
AMA-AOZ	Spain	LOA-LWZ	Argentine Republic
APA-ASZ	Pakistan	LXA-LXZ	Luxembourg
ATA-AWZ	India(Republic Of)	LYA-LYZ	Lithuania
AXA-AXZ	Australia(Commonwealth Of)	LZA-LZZ	Bulgaria(Peoples Republic)
AYA-AZZ	Argentine Republic	MAA-MZZ	United Kingdom
BAA-BZZ	China	NAA-NZZ	United States of America
CAA-CEZ	Chile	OAA-OCZ	Peru
CFA-CKZ	Canada	ODA-ODZ	Lebanon
CLA-CMZ	Cuba	OEA-OEZ	Austria
CNA-CNZ	Morocco(Kingdom Of)	OFA-OJZ	Finland
COA-COZ	Cuba	OKA-OMZ	Czechoslovak Socialist Rep.
CPA-CPZ	Bolivia	ONA-OTZ	Belgium
CQA-CRZ	Portuguese Overseas Prov.	OUA-OZZ	Denmark
CSA-CUZ	Portugal	PAA-PIZ	Netherlands
CVA-CXZ	Uruguay(Oriental Republic)	PJA-PJZ	Netherlands Antilles
CYA-CZZ	Canada	PKA-POZ	Indonesia(Republic of)
DAA-DTZ	Germany(Federal Republic)	PPA-PYZ	Brasil
DUA-DZZ	Philippines(Republic of the)	PZA-PZZ	Surinam
EAA-EHZ	Spain	QAA-QZZ	(Service Abbreviations)
EIA-EJZ	Ireland	RAA-RZZ	USSR
EKA-EKZ	USSR	SAA-SMZ	Sweden
ELA-ELZ	Liberia(Republic Of)	SNA-SRZ	Poland(People's Republic Of)
EMA-EOZ	USSR	SSA-SSM	United Arab Republic
EPA-EQZ	Iran	SSN-STZ	Sudan(Republic Of The)
ERA-ERZ	USSR	SUA-SUZ	United Arab Republic
ESA-ESZ	Estonia	SVA-SZZ	Greece
ETA-ETZ	Ethiopia	TAA-TCZ	Turkey
EUA-EWZ	Byelorussian SSR	TDA-TDZ	Guatemala
EXA-EZZ	USSR	TEA-TEZ	Costa Rica
FAA-FZZ	France and Territories	TFA-TFZ	Iceland
GAA-GZZ	United Kingdom	TGA-TGZ	Guatemala
HAA-HAZ	Hungary(People's Republic)	THA-THZ	France and Territories
HBA-HBZ	Switzerland(Confederation)	TIA-TIZ	Costa Rica
HCA-HDZ	Ecuador	TJA-TJZ	Cameroon(Federal Republic)
HEA-HEZ	Switzerland(Confederation)	TKA-TKZ	France and Territories
HFA-HFZ	Poland(People's Republic)	TLA-TLZ	Central African Republic
HGA-HGZ	Hungary(People's Republic)	TMA-TMZ	France and Territories
HHA-HHZ	Haiti(Republic Of)	TNA-TNZ	Congo(Republic Of The)
HIA-HIZ	Dominican Republic	TOA-TQZ	France and Territories
HJA-HKZ	Colombia(Republic Of)	TRA-TRZ	Gabon Republic
HIA-HMZ	Korea(Republic Of)	TSA-TSZ	Tunisia
HNA-HNZ	Iraq(Republic Of)	TTA-TTZ	Chad(Republic Of The)
HOA-HPZ	Panama	TUA-TUZ	Ivory Coast(Republic Of The)
HQA-HRZ	Honduras(Republic Of)	TVA-TXZ	France and Territories
HSA-HSZ	Thailand	TYA-TYZ	Dahomey(Republic Of)
HTA-HTZ	Nicaragua	TZA-TZZ	Mali(Republic Of)
HUA-HUZ	El Salvador(Republic of)	UAA-UQZ	USSR
HVA-HVZ	Vatican City State	URA-UTZ	Ukranian SSR
HWA-HWZ	France and Territories	UUA-UZZ	USSR
HZA-HZZ	Saudi Arabia(Kingdom Of)	VAA-VGZ	Canada
IAA-IZZ	Italy and Territories	VHA-VNZ	Australia(Commonwealth Of)
JAA-JSZ	Japan	VOA-VOZ	Canada
JTA-JVZ	Mongolian People's Rep.	VPA-VSZ	U.K. Overseas Territories
JWA-JXZ	Norway	VTA-VWZ	India(Republic Of)
JYA-JYZ	Jordan(Hashemite Kingdom)	VXA-VYZ	Canada
JZA-JZZ	Netherlands New Guinea	VZA-VZZ	Australia(Commonwealth Of)
KAA-KZZ	United States of America	WAA-WZZ	United States of America

Call Sign	Assigned To	Call Sign	Assigned To
XAA-XIZ	Mexico	5HA-5IZ	Tanzania(United Republic Of)
XJA-XOZ	Canada	5JA-5KZ	Colombia(Republic Of)
XPA-XPZ	Denmark	5LA-5MZ	Liberia(Republic Of)
XQA-XRZ	Chile	5NA-5OZ	Nigeria(Federal Republic Of)
XSA-XSZ	China	5PA-5QZ	Denmark
XTA-XTZ	Upper Volta(Republic Of)	5RA-5SZ	Malagasy Republic
XUA-XUZ	Cambodia(Kingdom Of)	5TA-5TZ	Mauritania(Islamic Republic)
XVA-XVZ	Viet-Nam(Republic Of)	5UA-5UZ	Niger(Republic of the)
XWA-XWZ	Laos(KingdomOf)	5VA-5VZ	Togolese Republic
XXA-XXZ	Portuguese Overseas Prov.	5WA-5WZ	Western Samoa
XYA-XZZ	Burma(Union Of)	5XA-5XZ	Uganda
YAA-YAZ	Afghanistan	5YA-5ZZ	Kenya
YBA-YHZ	Indonesia(Republic Of)	6AA-6BZ	United Arab Republic
YIA-YIZ	Iraq(Republic Of)	6CA-6CZ	Syrian Arab Republic
YJA-YJZ	New Hebrides	6DA-6JZ	Mexico
YKA-YKZ	Syrian Arab Republic	6KA-6NZ	Korea(Republic Of)
YLA-YLZ	Latvia	6OA-6OZ	Somali Republic
YMA-YMZ	Turkey	6PA-6SZ	Pakistan
YNA-YNZ	Nicaragua	6TA-6UZ	Sudan(Republic of the)
YOA-YZZ	Romania(Socialist Republic)	6VA-6WZ	Senegal(Republic of the)
YSA-YSZ	El Salvador(Republic Of)	6XA-6XZ	Malagasy Republic
YTA-YUZ	Yugoslavia(Federal Soc. Rp)	6YA-6YZ	Jamaica
YVA-YYZ	Venezuela(Republic Of)	6ZA-6ZZ	Liberia(Republic of)
YZA-YZZ	Yusoslavia	7AA-7IZ	Indonesia(Republic Of)
ZAA-ZAZ	Albania(People's Republic)	7JA-7NZ	Japan
ZBA-ZJZ	U.K. Overseas Territories	7OA-7OZ	Southern Yemen(People's Rep.
ZKA-ZMZ	New Zealand	7PA-7PZ	Lesotho(Kingdom Of)
ZNA-ZOZ	U.K. Overseas Territories	7QA-7QZ	Malawi
ZPA-ZPZ	Paraguay	7RA-7RZ	Algeria
ZQA-ZQZ	U.K. Overseas Territories	7SA-7SZ	Sweden
ZRA-ZUZ	South Africa(Republic Of)	7TA-7YZ	Algeria
ZVA-ZZZ	Brasil	7ZA-7ZZ	Saudi Arabia(Kingdom Of)
2AA-2ZZ	United Kingdom	8AA-8IZ	Indonesia(Republic Of)
3AA-3AZ	Monaco	8JA-8NZ	Japan
3BA-3BZ	Mauritius	8OA-8OZ	Botswana(Republic Of)
3CA-3CZ	Equitorial Guinea	8PA-8PZ	Barbados
3DA-3DM	Swaziland(Kingdom Of)	8QA-8QZ	Maldiv Islands
3DN-3DZ	Fiji	8RA-8RZ	Guyana
3GA-3GZ	Chile	8SA-8SZ	Sweden
3HA-3UZ	China	8TA-8YZ	India(Republic Of)
3VA-3VZ	Tunisia	8ZA-8ZZ	Suadi Arabia(Kingdom Of)
3WA-3WZ	Viet Nam(Republic Of)	9AA-9AZ	San Marino(Republic Of)
3XA-3XZ	Guinea(Republic Of)	9BA-9DZ	Iran
3YA-3YZ	Norway	9EA-9FZ	Ethopia
3ZA-3ZZ	Poland(People's Republic)	9GA-9GZ	Ghana
4AA-4CZ	Mexico	9HA-9HZ	Malta
4DA-4IZ	Philippines(Republic of	9IA-9JZ	Zambia(Republic Of)
4JA-4LZ	USSR	9KA-9KZ	Kuwait
4MA-4MZ	Venezuela(Republic Of)	9LA-9LZ	Sierra Leone
4NA-4OZ	Yugoslavia(Socialist Rep.)	9MA-9MZ	Malaysia
4PA-4SZ	Ceylon	9NA-9NZ	Nepal
4TA-4TZ	Peru	9OA-9TZ	Congo(Democratic Rep. Of The)
4UA-4UZ	United Nations.	9UA-9UZ	Burundi(Republic Of)
4VA-4VZ	Haiti(Republic of)	9VA-9VZ	Singapore(Republic Of)
4WA-4WZ	Yemen	9WA-9WZ	Malaysia
4XA-4XZ	Israel(State Of)	9XA-9XZ	Rwanda(Republic Of)
4YA-4YZ	Int. Civil Aviation Org.	9YA-9ZZ	Trinidad and Tabago
4ZA-4ZZ	Israel(State Of)	A2A-A2Z	Botswana(Republic Of)
5AA-5AZ	Libya(Kingdom Of)	A3A-A3Z	Tonga(Kingdom Of)
5BA-5BZ	Cyprus(Republic Of)	A5A-A5Z	Bhutan
5CA-5GZ	Morocco(Kingdom Of)	C2A-C2Z	Nauru
			C3A-C3Z Andorra
			L2A-L2Z Argentina

WORLD TIME CONVERSION CHART IN HOURS

0000	Greenwich Meridian Time. London, England.	Central Europe, Berlin, Geneva, Stockholm, Vienna.	Eastern Europe, Athens, Cape Town, Cairo, Moscow	Arabia, Armenia, Ethiopia, Madagascar.	Mauritius, Persia, Reunion Island.	Central Russia, Bombay, India.	Calcutta, Novosibirsk Russia, Tibet.	French Indo China, Siam, Sumatra.	Philippine Islands, Perth, Australia.	Central Australia, Tokyo, Japan.	Eastern Australia, Melbourne, Sydney.	New Caledonia.	International Date Line, Fiji Islands, N.Z. Std. Time.	Nome, Alaska, Samoa Islands.	Hawaiian Islands, Midway Islands.	Eastern Alaska, Dawson, Juneau.	Pacific Standard Time, Los Angeles, Seattle.	Mountain Standard Time, Calgary, Denver, Phoenix.	Central Standard Time, Chicago, Costa Rica.	Eastern Standard Time, Montreal, New York, Peru.	Atlantic Standard Time, Argentina, Nova Scotia.	Greenland, Rio de Janeiro, Brazil.	Azores.	Iceland, Canary Islands.
0100	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night
0200	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM
0300	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM
0400	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM
0500	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM
0600	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM
0700	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM
0800	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM
0900	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM
1000	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM
1100	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM
1200	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM
1300	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon
1400	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM
1500	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM
1600	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM
1700	5PM	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM
1800	6PM	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM
1900	7PM	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM
2000	8PM	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM
2100	9PM	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM
2200	10PM	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM
2300	11PM	Mid Night	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	Noon	1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM

With this chart you can convert standard time in any time zone to GMT or tell what time it is in other parts of the world. To generally use the chart, identify each horizontal line as a complete circle. From your time zone, tracing horizontally to the right (Counter Clockwise) it will be tomorrow when you pass midnight and yesterday when you pass the international date line. To the left (Clockwise) it will be yesterday when you pass the international date line going in one direction. For instance at 8 PM in New York Eastern Standard Time it is 2 AM tomorrow in Berlin, Germany and 11 AM tomorrow in Sydney, Australia. Always trace in the shortest direction from your time zone to find what time it is in any other zone. Copyright 1938 Radio Amateur Call Book, Inc., Chicago, USA.



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- Infinite VSWR protection from an open to short circuit.
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- Noise blanker with variable threshold.
- Anti-trip and delay controls.
- External VFO socket and switching controls.
- 25 kHz crystal calibrator.
- I.F. derived AGC with fast attack, controlled decay action.
- Minimized front-end overload, distortion and cross modulation.
- Excellent receiver sensitivity and selectivity.
- 2.7 kHz audio bandwidth—essentially flat 300 Hz to 3 kHz.
- 2.7 kHz crystal lattice filter with 1.7 shape factor.
- Distortion products down 30 dB or better.
- Unwanted sideband suppressed more than 50 dB.
- Carrier suppression greater than 60 dB.
- Image rejection 55 dB at 30 MHz to better than 75 dB at 3 MHz.

Accessories include . . . Mobile mounting rack, remote VFO, Deluxe desk microphone.

Operation from 230 volt AC supplies for home station when used with Model PS-220 power supply/speaker unit. Matching in style and dimensions.

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SCALE 1:2,000,000



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Except for the 4 main centres, no Cities, Boroughs or Independent Town Districts are shown on this map

SCALE 1:2,000,000



1st District	2nd District		
Bay of Islands	Akitio	Waiapu	Levels
Coromandel	Awatere	Waikohu	Mackenzie
Franklin	Clifton	Waimarino	Malvern
Gt Barrier/Waikeke	Cook	Waimate West	Mt Herbert
Hauraki Plains	Dannevirke	Waimea	Oxford
Hobson	Egmont	Waipawa	Paparua
Hokianga	Eketahuna	Waipukurau	Rangiora
Mangonui	Eltham	Wairarapa South	Tawera
Matamata	Featherston	Wairoa	Waimairi
Ohinemuri	Golden Bay	Waitotara	Waimate
Opotiki	Hawera	Wanganui	Waipara
Otamatea	Hawkes Bay	Woodville	Wairewa
Otorohanga	Horowhenua	3rd District	Westland
Piako	Hutt	Akaroa	4th District
Raglan	Inglewood	Amuri	Bruce
Rodney	Kairanga	Ashburton	Clutha
Rotorua	Kiwitea	Ashley	Fiord
Taumarunui	Manawatu	Buller	Lake
Taupo	Marlborough	Chatham Islands	Maniototo
Tauranga	Masterton	Cheviot	Peninsula
Thames	Oroua	Ellesmere	Southland
Waikato	Pahiatua	Eyre	Stewart Island
Waipu	Patangata	Geraldine	Taieri
Waitemata	Patea	Grey	Tuapeka
Waitomo	Pohangina	Halswell	Vincent
Whakatane	Rangitikei	Heathcote	Waihemo
Whangarei	Stratford	Inangahua	Waikouaiti
Whangaroa	Taranaki	Kaikoura	Waitaki
		Kowai	Wallace

STATISTICS

An abridged list of information supplied by the Department of Statistics, Wellington. The list may assist amateurs in supplying accurate information to interested parties in overseas countries. The figures quoted are correct as at 23rd March, 1971 Census of Population and Dwellings.

Population:

European 2,561,280 ; N.Z. Maori, 227,414 ; Polynesian, 45,413 ; Fijian, 2,021 ; Chinese, 12,818 ; Indian, 7,807. — Total 2,862,631.

Household Amenities:

Total Households: 801,686.
 Flush Toilets 776,230 ; Deep Freeze 345,930 ;
 Television 678,404 ; Motor Mowers 518,151 ;
 Telephones 684,601 ; Washing Machines 725,618 ; Refrigerators 770,496 ; Clothes Dryers 215,123 ; Motor Cars Owned by or Business Car Available for Use: One Car 441,459 ; Two or More: 192,776.
 Boats 77,529 ; Holiday Residences 35,581.

Electricity Generation for Public Supply 1973:

Means of Generation:
 Hydro 14,109 kWh (million).
 Thermal 3,144 kWh (million).

Total Generation: 17,254 kWh (million).
 Daily Average: 47,270 kWh (ooo).
 Per Head of Mean Population: 5884 kWh.

Areas and Yields of Crops 1972/73 (estimated):

Wheat, 244,000 acres ; Oats, 48,000 acres ;
 Barley 182,000 acres ; Maize, 37,800 acres.

Livestock 1973:

Dairy Cows in Milk 2,190,000.
 Beef Breeding Cows 1,996,000
 Total Cattle 9,088,000
 Pigs (Total) 507,000
 Total Sheep (1972) 60,883,000

Value of Principal Exports 1972 (provisional):

Meat and Meat Preparations \$399,337,000
 Butter \$181,242,000
 Cheese \$65,942,000
 Fruit and Vegetables \$22,716,000
 Hides, Skins and Pelts \$62,297,000
 Wool \$229,272,000
 Sausage Casings \$15,103,000
 Tallow \$8,912,000
 Casein \$25,404,000
 Pulp Paper and Board \$33,712,000
 Export Total \$1,369,837,000

BRANCH DIRECTORY

Correct as at May 1st, 1974

01 ASHBURTON

Clubrooms Address: Old Police Station Buildings, Mona Square.
Branch Call Sign: ZL3AF
Secretary: Trevor Churchill, ZL3ABZ.
Postal Address: 5 Albert Street, Ashburton.
President: R. J. (Dick) Wilson, ZL3FN.
Meeting Information: The first Monday each month (except January) at 8 p.m.

02 AUCKLAND

Clubrooms Address: Civil Defence Training Centre, Corner St. Johns, Kohimarama, and St. Heliers Bay Road, Auckland 5.
Clubrooms Telephone: 587-729.
Branch Call Sign: ZL1AA.
Branch Net Frequency: 3650 kHz.
Date/Time: Each Monday at 9 p.m. (except Christmas period).
Secretary: E. Caldwell, ZL1ACG. Phone 585-173.
Postal Address: P.O. Box 6597, Auckland.
President: B. J. Kirkwood, ZL1BN.
Meeting Information: At the Clubrooms, 3rd Tuesday of each month except January.
A.R.E.C. meets Civil Defence Bunker, Epsom, 4th Wednesday of each month at 7.45 p.m.
Radio Classes: Every Tuesday except third Tuesday at Clubrooms. CW — 7.30 to 8.30 p.m. Theory — 8.30 to 9.30 p.m. (subject to suspension).
Additional Contact Officers: Doug. Whillans, ZL1AFW, Phone 586-764. Mark Churton, ZL1TB, Phone 568-966.

03 WESTERN SUBURBS

Clubrooms Address: 3000 Great North Road, New Lynn, Auckland.
Branch Call Sign: ZL1RK.
Branch Net Frequency: 3.68 kHz.
Date/Time: Sunday morning, 8.00 a.m.
Secretary: S. H. G. Smith, ZL1BND.
Postal Address: 24A Evans Road, Glen Eden, Auckland 7.
President: J. W. Goodsir, ZL1BJI.
Meeting Information: 1st and 3rd Mondays, 7.30 p.m. monthly except January, at Clubrooms, 3000 Great North Road, New Lynn, Auckland 7.
Other Information: Phone GLE 4950, Syd Smith, Secretary.

04 CAMBRIDGE

Clubrooms Address: Commerce Street, Cambridge.
Branch Call Sign: ZL1ASW.
Branch Net Frequency: 3550 kHz.
Date/Time: 0900 hours.
Secretary: Jos Dekker, ZL1BHJ.
Postal Address P.O. Box 259, Cambridge.
President: Des Hamblyn, ZL1HP.
Meeting Information: Last Monday evening every month.

05 CHRISTCHURCH

Clubrooms Address: 27 Galbraith Avenue, Avonside, Christchurch 6.
Clubrooms Telephone: 899-626.
Branch Call Sign: ZL3WS.
Secretary: M. W. Bell, ZL3AO.
Postal Address: P.O. Box 1733, Christchurch.
President: T. D. Carrell, ZL3QL.
Meeting Information: Branch Meeting, 1st Wednesday of each month at 7.45 p.m.
A.R.E.C. Meeting, 2nd Wednesday of each month at 7.45 p.m.
V.H.F. Meeting, 3rd Wednesday of each month at 7.45 p.m.
Radio Classes: Held Tuesday evenings 7.30 to 9 p.m. from mid-February to September. All enquiries to P.O. Box 1733, Christchurch.
Other Information: Contact Officers, D. J. Mackay, ZL3RW (Phone, home 383-211, work 67-443); T. D. Carrell, ZL3QL (Phone, home 585-930); H. F. Arnold, ZL3HA (Phone 554-690).

06 DANNEVIRKE

Clubrooms Address: Corner Queen and Princess Sts., Dannevirke.
Clubrooms Telephone: 8325.
Branch Call Sign: ZL2AGM.
Branch Net Frequency: 3.850 kHz.
Date/Time: Every Sunday, 1000 hrs.
Secretary: O. D. Turner, ZL2ABT.
Postal Address: Tataramoa, R.D.7, Dannevirke.
President: A. E. Law, ZL2HE.
Meeting Information: Third Monday in each month at the Clubrooms, Queen Street.
Radio Classes: Morse classes when required.
Other Information: A.R.E.C. Section Leader, C. B. Howard, ZL2AHY; Deputy, D. Barrett, ZL2ADF.

08 EASTERN SOUTHLAND

Branch Call Sign: ZL4AL. C/o A. Grubb, ZL4AL.
Branch Net Frequency: 3838 kHz.
Date/Time: Every Saturday at 2000 hrs.

Secretary: Robert J. Todd, ZL4TCD.

Postal Address: Naumai Street, Gore.

President: A. Grubb.

Meeting Information: First Monday of the month at members' homes.

09 EGMONT

Secretary: Alistair Laing.

Postal Address: 52 Oberon Street, Stratford. (Phone 7200).

Meeting Information: Meets with New Plymouth Branch, 2nd Tuesday of each month.

10 FRANKLIN RADIO CLUB (INC.)

Clubrooms Address: Franklin Road, Pukekohe.

Branch Call Sign: ZL1SA.

Branch Net Frequency: 3.7 MHz.

Date/Time: Every Sunday, 0900 NZST.

Secretary: A. J. Oldfield, ZL1ARW.

Postal Address: 11 Collingwood Road, Waiuku.

President: R. Holt, ZL1BBZ.

Meeting Information: 3rd Tuesday every month at 8 p.m. at Clubrooms.

11 GISBORNE

Clubrooms Address: Rear of A. & P. Association's Showgrounds, Gisborne (right-hand entrance).

Branch Call Sign: ZL2VL.

Branch Net Frequency: 3850 kHz.

Secretary: J. M. Barraud, ZL2TGR.

Postal Address: Box 147, Gisborne.

President: Peter Omer.

Meeting Information: 2nd Monday each month at 7.30 p.m. (displaced one week if public holiday). A.G.M. March, no meeting in January.

Vice-President: R. A. Haisman, ZL2APH.

Treasurer: J. P. Thompson, ZL2JI.

Trustee: E. J. Kenny, ZL2QK.

A.R.E.C. Section Leader: E. J. Wallen, ZL2BCY.

Deputy Leader and Local QSL Manager: L. T. Lewis, ZL2BCJ.

12 HAMILTON

Clubrooms Address: Seddon Road, Hamilton.

Branch Call Sign: ZL1UX.

Branch Net Frequency: 3680 kHz.

Date/Time: Mondays at 7.30 p.m.

Secretary: E. Hudson, ZL1TJN.

Postal Address: P.O. Box 606, Hamilton.

President: E. Papesch, ZL1AJI.

Meeting Information: Club meets 7.30 p.m. first Wednesday of each month. Committee meets second Wednesday of each month, 7.30 p.m. at Clubrooms.

A.R.E.C. meets monthly on dates suitable to members.

Radio Classes: Theory Class every Tuesday night, 7 p.m. at Clubrooms.

13 HASTINGS

Clubrooms Address: Caroline Road, Hastings.

Branch Call Sign: ZL2BEI.

Secretary: H. A. Johnson, ZL2BEJ.

Postal Address: 51 Tanner Street, Havelock North.

President: B. C. A. Hooker, ZL2BCS.

Meeting Information: 4th Wednesday each month.

14 HAWERA

In Recess. Please refer Patea Branch 54 for meeting information.

15 CENTRAL HAWKES BAY

Clubrooms Address: Private Bag 591, Waipukurau.

Clubrooms Telephone: 181 Waipukurau (P. Cooper).

Branch Call Sign: ZL2AR.

Secretary: J. Simcox, ZL2THK.

President: Brosnan, V. W.

Meeting Information: 3rd Tuesday each month except January. Held at Pukeora Home, Waipukurau.

Contact Officer: M. Reynolds, Ruahine Motors, Waipukurau. Phone: Business 1232. Residence 1169.

16 HOROWHENUA

Clubrooms Telephone: 7774 Levin.

Branch Call Sign: ZL2DS.

Branch Net Frequency: 3580 kHz.

Date/Time: Approx. 0900 hours each Sunday.

Secretary: C. M. H. Thevenard, ZL2IR (Phone 7774).

Postal Address: 81 Queenwood Road, Levin.

President: E. D. Burnham, ZL2BHH (Phone 5970).

Meeting Information: 4th Wednesday each month at members' homes.

17 HUNTLY

Clubrooms Address: Hakamoia Street, Huntly.

Secretary: T. Turton.

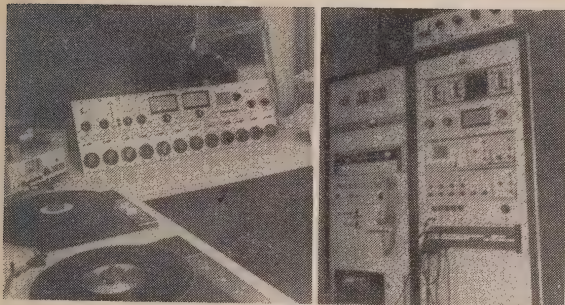
Postal Address: 13 Kimihia Road, Huntly.

President: J. Chew.

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- ☆ **BALLINS GROUP OF HOTELS**
- ☆ **A & P COMPLEX—CHRISTCHURCH**
- ☆ **CHATEAU COMMODORE
BLENHEIM
CHRISTCHURCH
TIMARU**
- ☆ **PAPAROA MENS & WOMENS PRISON**

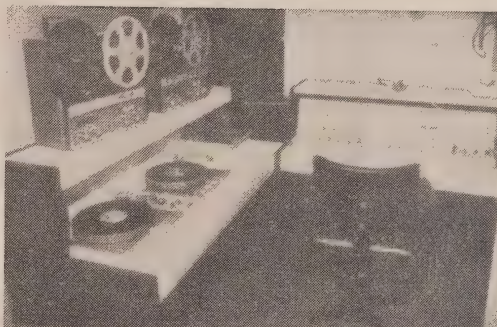


PHOTO SHOWS ONE OF THE SOUND CONTROL ROOMS IN THE CHRISTCHURCH TOWN HALL COMPLEX

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18 HUTT VALLEY

Branch Call Sign: ZL2HV.

Branch Net Frequency: 3675 kHz.

Date/Time: Sundays at 0900 NZST.

Secretary: T. J. Waghorn, ZL2AVY.

Postal Address: 8 Reuben Grove, Lower Hutt.

President: S. J. White, ZL2AHC.

Meeting Information: 1st Sunday each month except January and June (June meeting 2nd Sunday), Hutt Valley Tramping Clubrooms, Service Lane, Birch Street, Waterloo.
Other Information: Contact Officer: C. F. Currey, ZL2BGL, 31 Capella Flats, Waiwhetu (Phone: Business 685-109; Residence 60-637).

19 INGLEWOOD

Clubrooms Address: James Street, Inglewood.

Clubrooms Telephone: 314 Inglewood.

Branch Net Frequency: 3660 kHz.

Date/Time: Every Sunday at 0930 and 2000 hrs NZST.

Secretary: C. J. T. Martin, ZL2KV.

Postal Address: P.O. Box 74, Inglewood.

President: F. H. Cramer, ZL2AIS.

Meeting Information: 3rd Wednesday every month.

20 MANAWATU

Clubrooms Address: Albert Street, Palmerston North.

Branch Call Sign: ZL2KO.

Branch Net Frequency: 3650 kHz.

Date/Time: Tuesday nights at 8 p.m.

Secretary: D. J. Woods, ZL2TOR.

Postal Address: P.O. Box 1718, Palmerston North.

President: P. Grove, ZL2BGO.

Meeting Information: 1st Wednesday each month except January at 8 p.m. Committee meets 2nd Wednesday each month.

Radio Classes: Beginners class each Tuesday at 7.30 p.m. Constructors class each Saturday at 9 a.m.

Contact Officer: H. N. Wiggins, ZL2BFR (Phone 82-527).

21 MANAKAU (Inc.)

Clubrooms Address: Guide Place, Papatoetoe.

Clubrooms Telephone: AKLD 80-288.

Branch Call Sign: ZL1QB.

Branch Net Frequency: 3652 kHz.

Date/Time: Sundays at 9.30 a.m.

Secretary: Phil Abbott, ZL1ACF.

Postal Address: P.O. Box 23066, Papatoetoe.

President: Doug Soppet, ZL1BIX.

Meeting Information: 3rd Wednesday of the month 7.30 p.m. Please Note that the slow Morse sessions from ZL1QB are now discontinued.

22 MARLBOROUGH

Clubrooms Address: John Street, Blenheim.

Branch Call Sign: ZL2AOU.

Branch Net Frequency: 3720 kHz.

Date/Time: Tuesday 2000 hrs.

Secretary: W. Bate, ZL2AAQ.

Postal Address: 22 Gilbert Street, Blenheim. Phone 4116.

President: T. G. Wilkie, ZL2AMA. 13 Hale St., Blenheim. Phone 5216.

Meeting Information: 2nd Monday in month at Clubrooms.

23 MARTON

Secretary: T. F. Rubery, ZL2NR.

Postal Address: C/o Box 79 Marton.

President: H. Wright, ZL2TL.

Meeting Information: Held at members' residences as business requires.

24 MOTUEKA

Clubrooms Address: Members' Shacks.

Secretary:

Postal Address: 136 King Edward Street, Motueka.

President: W. N. Simpson, 23 High Street, Motueka.

Meeting Information: By arrangement at members' homes.

25 NAPIER

Clubrooms Address: 123 Latham Street, Napier.

Branch Call Sign: ZL2ABJ.

Branch Net Frequency: 3730 kHz.

Date/Time: Wednesdays 0800 GMT.

Secretary: Mrs Karen Wilson, ZL2AQO.

Postal Address: P.O. Box 4030 Napier.

President: D. W. Mudford, ZL2AMV.

Meeting Information: 3rd Sunday each month at Clubrooms, 0730 GMT.

Radio Classes: CW and Theory Classes: Thursdays 0700-0900 GMT.

Contact Officer: W. Forsyth, ZL2ALO. Phone 37-539.

26 NELSON

Clubrooms Address: Maitai Valley Road, Nelson.

Branch Call Sign: ZL2ARG.

Branch AREC Net Frequency: 3895 kHz.

Date/Time: Sundays at 0900 NZST.

Secretary: M. C. Simpson, ZL2AKK.

Postal Address: 8 Warwick St., Richmond, Nelson.

President: K. G. Banks, ZL2GI.

Meeting Information: At Branch Clubrooms on the 4th Wednesday of each month at 8.00 p.m.

Radio Classes: Each Friday night from 7.00 to 9.00 p.m.

27 NEW PLYMOUTH

Clubrooms Address: C.D. Buildings, Robe Street at Marsland

Hill, New Plymouth.

Branch Call Sign: ZL2BDN.

Secretary: R. E. Wills, ZL2AWX (Phone: Business 5464, home 83-296).

Postal Address: P.O. Box 815, New Plymouth.

President: J. Pinhey, ZL2LE.

Meeting Information: 2nd Tuesday, 7.30 p.m. at Clubrooms. No meeting in January.

Radio Classes: Weekly classes — Theory and Code.

A.R.E.C. Section Leader: S. Ireson, ZL2TE.

28 NORTHLAND

Clubrooms Address: Civil Defence Training Headquarters, Caffer Ave., Whangarei.

Branch Call Sign: ZL1AM.

Branch Net Frequency: 3740 kHz.

Date/Time: Sundays, 0900 NZST.

Secretary: I. W. Ogier, ZL1AF.

Postal Address: P.O. Box 711 Whangarei (Phone 83-542).

President: J. Oliver, ZL1BIA (Phone 84-405).

Meeting Information: 1st Wednesday each month (except January), 7.30 p.m.

29 NORTH SHORE

Clubrooms Address: Kennedy Park, 145 Beach Road, Castor Bay.

Branch Call Sign: ZL1VQ.

Branch Net Frequency: 3780 kHz.

Date/Time: Fridays, 9.00 p.m.

Secretary: J. L. Phillips, ZL1ASV.

Postal Address: 27A Seaview Road, Takapuna.

President: C. R. McKenzie, ZL1ARC.

Meeting Information: 1st Monday each month except January and public holidays (2nd Monday June), 7.30 p.m.

Radio Classes: Mondays in winter at 7 p.m.

Trustees: J. L. Phillips, ZL1ASV; Brian Sando, ZL1BNR.

30 OTAGO (Inc.)

Clubrooms Address: 109 Macandrew Road, Dunedin.

Branch Call Sign: ZL4JY.

Secretary: Mike Groth, ZL4GF.

Postal Address: Box 6050 Dunedin North.

President: T. W. Rhodes.

Meeting Information: General, Wednesdays at 8.00 p.m. except January.

Radio Classes: 7.00 p.m. each Wednesday.

31 PAHIATUA

Clubrooms Address: Main Road North, Pahiatua.

Clubrooms Telephone: 8698 (temporary connection).

Branch Call Sign: ZL2SP.

Secretary: C. H. Parker, ZL2IX.

Postal Address: Tiraumea Road, Pahiatua.

President: R. W. Brown, ZL2ACK.

Meeting Information: Third Wednesday.

32 RAHOTU COASTAL

Clubrooms Address: McGregor Lane, Rahotu.

Clubrooms Telephone: 739.

Branch Call Sign: ZL2ANN.

Secretary: L. C. Pentelow, ZL2OF.

Postal Address: Kina Road, No. 31 R.D., Opuake.

President: R. D. Corrie, ZL2ACO.

Main Road Rahotu.

Also contact and operate Marine Radio "ZKUJ Rahotu Radio".

33 ROTORUA AMATEUR RADIO CLUB (Inc.)

Clubrooms Address: Amohau Street, Rotorua, C/o P.O. Box 862 Rotorua.

Branch Call Sign: ZL1AVG.

Branch Net Frequency: 3725 kHz.

Date/Time: Sunday 0830 NZST.

Secretary: Len Fish, ZL1BLR. Phone 85-194 day; 82-779 night.

Postal Address: P.O. Box 862, Rotorua.

President: Brian Yerex, ZL1TLP. Phone 83-674.

Meeting Information: Regular monthly meeting on 3rd Tuesday each month. Informal meetings on remaining Tuesday evenings in month. Visitors especially welcome.

Radio Classes: Wednesday evenings, 8 p.m.

CW Classes, contact Hon. Sec.

34 TIMARU

Clubrooms Address: 32 Newton Street, Timaru.

Clubrooms Telephone: 89-044.

Branch Call Sign: ZL3UR.

Secretary: Doug Baker, ZL3GC.

Postal Address P.O. Box 73.

President: Starr Moffatt.

Meeting Information: General meetings held on the last Monday of each month. Meetings commence at 8.00 p.m.

A.R.E.C. Section Leader: Brian Gorman, ZL3CN.

35 SOUTH OTAGO

Secretary: A. Orton.

Postal Address: Church Street, Clinton.

President: J. L. Findlater.

36 SOUTH WESTLAND

Secretary: W. A. Buchanan, ZL3TM.

Postal Address: 167 Seawall Street, Hokitika.

Meeting Information: Last Wednesday of every even month, at member's home.

37 SOUTHLAND

Clubrooms Address: Etrick Street, Invercargill.

Clubrooms Telephone: 88-686.

Branch Call Sign: ZL4GQ.

President: N. Checketts, ZL40X.
 Meeting Information: Monthly meetings 3rd Tuesday at 7.45 p.m. (except January).
 Radio Classes: Weekly, Thursday night.

38 TAUMARUNUI
 Branch Call Sign: ZL1ATO.
 Secretary: C. Barltrop, ZL1LX.
 Postal Address: 228 Taumarunui.
 President: H. R. W. Bunn, ZL1JV.
 Meeting Information: Due to small membership meetings are irregular.

Secretary: T. R. Service, ZL4GJ.
 Postal Address: P.O. Box 1260 Invercargill.

39 TAURANGA
 Branch Net Frequency: 3600 kHz. (146 MHz).
 Date/Time: Every Sunday 0900 hrs. (Every Wednesday 2000 hrs).
 Secretary: George R. Knaggs, ZL1AQY (Phone 83-256).
 Postal Address 31 Henderson Crescent, Tauranga.
 President Peter Croucher ZL1TGT.
 Meeting Information 1st Thursday every month, 1930 hours.
 VHF Section meets by arrangement.
 Radio Classes Contact Secretary for information.
 Tauranga Branch 39 extends an open invitation to visiting hams.

40 TE AWAMUTU
 Clubrooms Address: Albert Park, George Street.
 Branch Call Sign: ZL1CB.
 Branch Net Frequency: 3865 kHz.
 Secretary: G. H. Grayston, ZL1AHC.
 Postal Address: Box 44 Te Awamutu.
 President: R. G. Cullen, ZL1WR.
 Meeting Information: Third Wednesday each month, 8 p.m. at Clubroom.

41 THAMES
 Clubrooms Telephone: 188.
 Branch Net Frequency: 3850 kHz.
 Secretary: B. Ludwig.
 Postal Address: P.O. Box 33, Thames.
 President: N. H. Browne.
 Meeting Information: 2nd Monday of the month in members' homes at 7.30 p.m.

42 TITAHU BAY
 Clubrooms Address: Tireti Hall, Titahi Bay.
 Branch Call Sign: ZL2AFV.
 Branch Net Frequency: 3700 kHz.
 Date/Time: Sunday mornings at 1100 hours NZST.
 Secretary: A. D. Holland, ZL2BHW.
 Postal Address: 5 Rose Street, Rauni Heights, Porirua.
 President: L. Nicol, ZL2AGJ.
 Meeting Information: 1st Tuesday every month (except January), commencing at 7.30 p.m.

43 WAIHI
 Clubrooms Address: C/o Pye Manufacturing Division.
 Branch Call Sign: ZL1BAE.
 Secretary: G. H. Street, ZL1AUG.
 Postal Address, Box 93 Waihi.
 President: R. J. Boggiss.
 Meeting Information: 2nd Wednesday every month except January, commences 7.30 p.m. at Pye Manufacturing Division Cafeteria, Moresby Ave., Waihi.

44 MATAMATA
 Branch Call Sign: ZL1RF.
 Branch Net Frequency: 3560 kHz.
 Date/Time: Sundays at 0900.
 Secretary: D. B. Hardwick, ZL1AXO.
 Postal Address: Wardville Road, Waiaroa.
 President: W. W. Coates, ZL1GQ.
 Meeting Information: 2nd Wednesday each month at 8 p.m.
 Contact Officer: Phone 7107; Business 7714.

45 WAIMARINO
 Branch Call Sign: ZL2MG.
 Secretary: G. W. Luscombe, ZL2AVL.
 Postal Address: Main Road, Waiouru. Phone 707.
 President: D. Prime, ZL2JL, Dixon Way, Taihape.
 Meeting Information: 2nd Saturday of each month at members' homes, starting 8.00 p.m.

46 WAIRARAPA
 Clubrooms Address: Railway Road, Masterton.
 Branch Call Sign: ZL2BDZ (Trustee: J. Henderson).
 Secretary: C. G. Coutts, ZL2TRX.
 Postal Address: 23 Michael Street, Masterton.
 President: W. A. Campbell, ZL2AIB.
 Meeting Information: Second Thursday of month excluding January, at 8.00 p.m.

47 WAITARA
 Clubrooms Telephone: 7062.
 Branch Call Sign: ZL2TO.
 Secretary: D. B. Allen, ZL2AQA, 12 High Street, Waitara.
 Postal Address: P.O. Box 44, Waitara.
 President: T. Barden, ZL2AKZ.
 Meeting Information: 1st Wednesday each month at residence of Secretary.

48 WANGANUI
 Clubrooms Address: 2 Peat Street, Wanganui.
 Branch Call Sign: ZL2BAW.
 Secretary: B. E. Stewart, ZL2AUS.
 Postal Address: 37 Quick Avenue, Wanganui.
 President: L. Boyle, ZL2BGE.

Meeting Information: 1st Monday of the month at 7.30 p.m. (except January) at the Clubrooms, 2 Peat Street, Wanganui.

Contact Officer: John Lynch, ZL2QW, Phone 39-188.

49 WESTLAND
 Clubrooms Address: Cobden Bowling Clubrooms, Greymouth.
 Branch Call Sign: ZL3DN.
 Secretary: T. M. Brett (Mrs), ZL3TC.
 Postal Address: 17 Josephine Street, Greymouth.
 President: B. J. McQuarrie, ZL3TY.
 Meeting Information: 1st Wednesday of each month at 7.30 p.m.
 Contact Officer: Mrs Z. H. Garlick, ZL3AAB.
 Radio Classes: One series of classes each year.

50 WELLINGTON
 Branch Call Sign: ZL2WB.
 Secretary: Jim Logan, ZL2TSB.
 Postal Address: P.O. Box 6243, Te Aro, Wellington.
 President Bruce Durdle, ZL2BAM.
 Meeting Information: Third Tuesday each month, 7.30 p.m., M.E.D. Building, Webb Street.
 Radio Classes: Contact ZL2BAM.

51 EASTERN BAY OF PLENTY
 Branch Call Sign: ZL1AIU.
 Branch Net Frequency: 3720 kHz.
 Date/Time: Mondays, 1830 hrs.
 Secretary: C. E. Shaw, ZL1CS, Phone 5568.
 Postal Address: Box 2088 Whakatane.
 President: J. P. Rowe, ZL1AVR.
 Meeting Information: The 4th Saturday in the month held in the Communication Hut, Hillcrest, Whakatane, at 7.30 p.m. No meeting in January.
 Contact Officer: J. King, ZL1AOF, C/o Borough Council, Whakatane.

52 NORTHERN HAWKES BAY
 Secretary: C. W. Dixon, ZL2FT.
 Postal Address: 76 Lahore Street, Wairoa.

53 TE PUKE
 Secretary: R. J. H. Hollis.
 Postal Address: 46 Beatty Avenue, Te Puke.
 President: F. W. Miller.
 Meeting Information: 2nd Sunday in month at member's home in turn.

54 PATEA
 Branch Call Sign: ZL2APU.
 Secretary: J. A. Gunn, ZL2LTY.
 Postal Address: 23 Middlesex St., Patea.
 President: M. B. Spearman, ZL2TOG.
 Meeting Information: 3rd Monday each month at members' homes.

55 WAITOMO
 Clubrooms Address: C/o 35 Orahiri Terrace.
 Contact Phone 7190.
 Branch Call Sign: ZL1IZ.
 Secretary: B. L. Marx, HN135.
 Postal Address: P.O. Box 209, Otorohanga.
 President: I. M. Howitt, ZL1BZ.
 A.R.E.C. Shack at Water Tower, Thompson Avenue. Phone via County Council's P.A.B.X.

56 HORNBY AND DISTRICTS
 Clubrooms Address: Holmes Park, English Street.
 Branch Call Sign: ZL3VV.
 Branch Net Frequency: 3650 kHz.
 Date/Time: 1st Tuesday 1930 NZST.
 Secretary: L. F. Coles, ZL3UV.
 Postal Address: 232 Shortland St., Christchurch 6.
 President: D. K. Hampton, ZL3II.
 Meeting Information: 1st Tuesday of each month except January.

57 TOKOROA
 Clubrooms Address: Behind Police Station, Logan St., Tokoroa.
 Branch Call Sign: ZL1AQR.
 Branch Net Frequency: 3750 kHz.
 Date/Time: Sundays at 1800 NZST.
 Secretary: John Ten Velde, ZL1ACH.
 Postal Address: P.O. Box 246 Tokoroa.
 President: Ross Glover, ZL2AYI/I.
 Meeting Information: Third Monday of each month at Clubrooms, 2000 NZST.

58 HELENSVILLE
 In recess.

59 MANGAKINO
 In recess.

60 TAUPU
 Clubrooms Address: Taupo County Depot, Spa Road, Taupo.
 Clubrooms Telephone: 2235 Taupo.
 Branch Call Sign: ZL1BCO.
 Branch Net Frequency: 144.2 MHz.
 Date/Time: Sundays, 10 a.m.
 Secretary: Don Dick.
 Postal Address: P.O. Box 165, Taupo.
 President: W. L. Taylor, ZL1TIN.
 Meeting Information: 1st Tuesday each month at 7.30 p.m.
 Contact Officer: R. Miller, ZL1SO, C/o N.Z.B.C., Taupo.

61 CENTRAL OTAGO
 Clubrooms Address: C/o A. F. Cresswell, ZL4FX, Omakau.
 Clubrooms Telephone: Omakau 497.
 Secretary: J. G. Wilkinson, ZL4FI (Phone 8798 Alexandra).

62 REEFTON-BULLER

Clubrooms Address: 8 Queen Street, Cnr. Queen and Gladstone Streets.

Clubrooms Telephone: 7408 (meeting nights only).

Branch Call Sign: ZL3WP.

Branch Net Frequency: 3880 kHz.

Date/Time: Sundays at 1100 NZST.

Secretary: G. W. Lobb, ZL3PB. Phone 7461.

Postal Address: 64 Peel Street, Westport.

President: J. F. Bevin, ZL3PW. Phone 8486.

Meeting Information: 1st Monday of month, 7.30 p.m. (No meeting January).

Radio Classes: Wednesday nights, 7.30 p.m.

Postal Address: 77 Russell Street, Alexandra.

President: J. V. Colyer, ZL4KE.

Meeting Information: 3rd Sunday: February, March, May, July, September, November at 1400 hours.

Contact Officers: J. G. Wilkinson, ZL4FI (Phone: home 8789); J. V. Colyer (Phone: home 2777).

63 UPPER HUTT (Inc.)

Clubrooms Address: Upper Hutt Civic Buildings.

Branch Call Sign: ZL2VH.

Branch Net Frequency: 3640 kHz.

Date/Time: Each Monday at 7.30 p.m.

Secretary: Jamie Pye, ZL2NN.

Postal Address: P.O. Box 40-212, Upper Hutt.

President: Peter Norden, ZL2TOX.

Meeting Information: 2nd Sunday of each month (except January) at 7.30 p.m. in above Clubrooms.

64 NORTH OTAGO

Clubrooms Address: 24 Itchen Street, Oamaru.

Branch Call Sign: ZL4OU.

Branch Net Frequency: 3850 kHz.

Secretary: S. V. Vincent.

Postal Address: 1 C.R.D. Oamaru.

President: R. Watson.

Meeting Information: Held on the fourth Tuesday each month.

65 PAPA KURA (Inc.)

Clubrooms Address: Girl Guide Hall, Opaheke Road, Papakura.

Branch Call Sign: ZL1VK.

Branch Net Frequencies: 3750 kHz and 144.380 MHz.

Date/Time: Every Sunday at 0900 hrs (3750 kHz) and every Sunday at 0945 hours (144.380 MHz.)

Secretary: E. T. Davis, ZL1BID.

Postal Address: 26 Royal Arch Place, Papakura.

President: G. A. Penney, ZL1APO.

Meeting Information: 1st Wednesday of every month (except January) at 1930 hours. Held at Girl Guide Hall, Opaheke Road, Papakura.

Contact Officer: Ian Morrow, ZL1TRR.

66 AUCKLAND V.H.F. GROUP (Inc.)

Clubrooms Address: Hazel Ave., Mt Roskill, Auckland.

Branch Call Sign: ZL1BQ.

Branch Net Frequency: Channel C Repeater, 146.30 input, 145.60 output.

Date/Time: Any time.

Secretary: W. B. Wood, ZL1AJK.

Postal Address: P.O. Box 10138 Balmoral, Auckland.

President: D. G. Dingley, ZL1TIA.

Meeting Information: Second Monday of each month, 7.30 p.m. Informal technical meeting fourth Monday of month, 7.30 p.m.

Radio Classes: Sunday mornings, at Clubrooms, 9 a.m.-12 noon.

67 KAWERAU

Clubrooms Address: A.T.C. Hall, Onslow Street.

Clubrooms Telephone: 8722.

Branch Call Sign: ZL1KW.

Secretary: J. B. Armstrong, ZL1AZX.

Postal Address: 10 Normanby Street, Kawerau.

President: G. Whitwell, ZL1BGE.

Meeting Information: Third Wednesday night each month, 7.30 p.m.

Contact Officer: L. Shakes, ZL1BII, phone home 8275; work 8699, ext. 842.

68 NORTH CANTERBURY

Clubrooms Address: Borough Council Old Electrical Workshop, Percival St., Rangiora, opp. Fire Station.

Branch Call Sign: ZL3RR.

Branch Net Frequency: 3650 kHz.

Date/Time: 2nd Monday of month, 8.00 p.m.

Secretary: Richard Clark.

Postal Address: P.O. Box 89 Rangiora.

President: John Abernathy, ZL3PC.

Meeting Information: General meeting 2nd Tuesday of month, 7.45 p.m.

North Canterbury V.H.F. Group meetings last Monday in month, 7.45 p.m.

69 KAPITI

Clubrooms Address: McLean St., Paraparaumu Beach.

Clubrooms Telephone: 5139 Paraparaumu (meeting nights only).

Branch Call Sign: ZL2KB.

Branch Net Frequency: 144.5 MHz, 3800 kHz.

Secretary: A. L. Beale, ZL2TQC.

Postal Address: 35B Teoti St., Paraparaumu.

President: L. C. Blackley, ZL2TFP.

Meeting Information: Alternate Wednesdays 8 p.m., at Clubrooms, McLean St., Paraparaumu.

Contact Officer: Mr L. F. Carlisle, ZL2CL. Phone 8367.

70 FEILDING

Clubrooms Address: P.O. Box 416.

Branch Call Sign: ZL2AMR.

Branch Net Frequency: V.H.F., F.M. Channel 'D'.

Secretary: J. R. Boulton, ZL2AUO.

Postal Address: P.O. Box 416.

President: J. J. Williamson, ZL2ANP.

Meeting Information: Every third Monday of each month (except December and January).

71 RODNEY

Clubrooms Address: Civil Defence Hdq., School Rd., Wellsford.

Clubrooms Telephone: WFD 8999.

Branch Net Frequency: 3740 kHz.

Date/Time: Sundays at 0900 hrs (Northland Branch 28 Net).

Secretary: Audrey Littin, ZL1TDL.

Postal Address: P.O. Box 58, Wellsford.

President: Brian Nelson, ZL1AZU.

Meeting Information: Meets every 3rd Wednesday in Clubrooms at 8.00 p.m. Phone Secretary, Wellsford 5661 for further information.

74 WELLINGTON V.H.F. GROUP (Inc.)

Clubrooms Address: Municipal Electricity Department Cafeteria, Webb Street.

Branch Call Sign: ZL2WA.

Secretary: V. N. Henderson, ZL2TGH.

Postal Address: P.O. Box 12-259, Wellington North.

President: A. Fleming, ZL2TKP.

Meeting Information: Last Thursday of month (except December and January) in above Clubrooms, at 7.30 p.m.

75 QUEENSTOWN

No information.



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KAWASAKI *PowerPac* PORTABLE GENERATORS

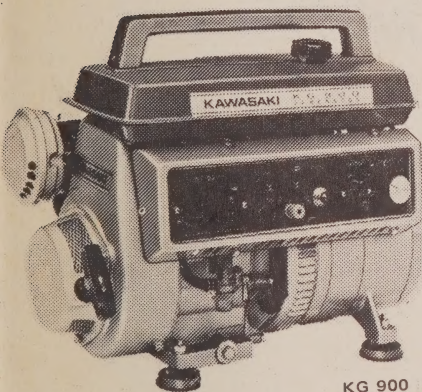
all the power you need where there isn't any

Kawasaki introduces three new portable "whisper quiet" generators for people who get away from it all — and still want the convenience of electricity. There is a power plant suitable for every recreation and light utility application: KG600, KG900 and KG1300. You can take them anywhere and turn on instant power.

All Kawasaki Generators have Automatic Voltage Regulators, providing good voltage regulation and frequency stability.

SPECIFICATIONS

KG 600					KG 900					KG 1300							
A.C.	Frequency		50Hz			60Hz		50Hz			60Hz		50Hz			60Hz	
	Volts		110V	220V	240V	110V	110V	220V	240V	110V	110V	220V	240V	110V			
	Output	Rated	510VA			600VA		810VA			900VA		1100VA			1300VA	
		Max.	630VA			750VA		990VA			1100VA		1350VA			1600VA	
	Power Factor			1.0													
D.C.	Output		12V, 100W														
Engine			4-cycle, air cooled, gasoline engine														
3.0 lit ^(0.7 Imp. gal.) _(0.8 U.S. gal.) for 4.5 h.			3.0 lit. ^(0.7 Imp. gal.) _(0.8 U.S. gal.) for 4 h.			5.0 lit ^(1.1 Imp. gal.) _(1.3 U.S. gal.) for 4.5 h.											
25kg (55 lbs)			30kg (66 lbs)			42kg (92 lbs)											
441 x 280 x 381mm (17.2 x 10.9 x 14.9 in)			473 x 289 x 400mm (18.5 x 11.3 x 15.6 in)			571 x 308 x 419mm (22.3 x 12.0 x 16.3 in)											
\$298.00			\$348.00			\$458.00											



KG 900

N.B.: 3KVA units will be available approximately November 1974.

JOHN GILBERT & COMPANY LTD.

ELECTRONIC PARTS AND EQUIPMENT

TASMAN BUILDING 16-22 ANZAC AVENUE
AUCKLAND 1 NEW ZEALAND

FIRST-AID TREATMENT FOR . . .

Electric Shock

EVERY MOMENT IS VITAL

When possible DISCONNECT the power supply IMMEDIATELY.

Free victim from electric contact using UTMOST CAUTION.

Beware of contact with LIVE conductors.

RESCUE BREATHING

is normally the best method for ELECTRIC SHOCK, DROWNING, SUFFOCATION, and SIMILAR ACCIDENTS

On circuits up to and including 650 volts, if it is not possible to disconnect the power quickly, either insulate yourself by standing on dry non-conducting material such as a rubber mat or protect your hands with insulating material (e.g., layers of dry clothing or paper) and pull the victim clear of contact, or drag the victim away by means of a dry rope, clothing, wood, or other non-conducting material.

DON'T use either metals or damp materials. On circuits above 650 volts where it is not possible to disconnect the power quickly, only trained persons should attempt to release the victim using appropriate means of insulation. If such means are not available, the rescuer must earth the line, being particularly careful to keep clear of the earth lead and a possible power arc.

AFTER RELEASE FROM CONTACT start rescue breathing without delay if breathing has stopped, is intermittent, or is very weak. The time interval in which successful resuscitation can be achieved is very short.

DOCTOR and AMBULANCE—Send someone else to call them as soon as possible.

BURNS—Do not burst blisters or pull off clothing which has stuck.
Cover exposed parts with a clean cloth or towel only.

Whatever the victim's position—ensure he has a good airway by extreme tilting of his head (fig. 1), this will lift the tongue clear of the airway and the victim may gasp and start to breathe without further help. If he does not breathe, the lack of air is critical and rescue breathing should be started immediately (fig. 2).

Make the first 5 to 10 breaths deep (but not forceful) to achieve a rapid increase in oxygen supply to the victim. Then continue with 10-15 breaths a minute. When he starts to recover breathe in time with his efforts.

FOR SMALL CHILDREN seal your mouth around child's mouth and nose, and blow gently (puffs only for infants) at least 20 times a minute. Stop each inflation as you see the victim's chest expand (fig. 4). Air blown into the stomach may decrease the blood flow returning to the heart or cause vomiting. Excess air may be removed by gentle pressure on the stomach, but emptying air from it, can cause its contents to be regurgitated into the throat. Usually it will not be necessary to remove this stomach air—If his nose is blocked, try rescue breathing through his mouth by sealing your lips around his opened mouth, and blocking his nostrils with your cheek (fig. 3) to prevent air leakage—If his throat is blocked, clear it quickly with your fingers. Slaps between the shoulder blades should dislodge a stubborn blockage—Continue without interruption for at least 2 hours or until natural breathing is restored—When victim commences breathing ensure that you keep your breath in time with his efforts if he still requires assistance—Don't move the victim until breathing is fully restored, unless moving him is necessary to avoid exposure, and if it is possible to continue rescue breathing without interruption.

DURING RECOVERY outpourings of saliva and nasal and gastric secretions usually take place. Retching and vomiting may follow. To prevent inhalation of vomitted material which can cause infection of the lungs and also to prevent the tongue in an unconscious victim obstructing the airway—

Place the victim in the coma position (fig. 5).

- (i) Lay the victim on his side.
- (ii) Place the arm and forearm of the side on which he is lying behind his back and bend the knee of the same side slightly.
- (iii) Place the other (upper) limb in a convenient position, bending both the hip and knee to nearly a right-angle.



Fig. 1—Hold head fully tilted with chin pulled forward. Open your mouth wide, take a deep breath. Hold his mouth closed.



Fig. 2—Seal your lips on his cheeks around his nose (avoid closing his nostrils) and blow until you see his chest rise.



Fig. 3—If rescue breathing through his mouth, seal your mouth around his opened mouth (or parted lips) blocking his nostrils with your cheek to prevent leakage, and blow.



Fig. 4—Remove your mouth while you take another breath, with your head turned aside. As soon as he has breathed out inflate his lungs again.



Fig. 5.

KEEP A CLOSE CHECK ON HIS BREATHING—
SEND HIM TO HOSPITAL WITHOUT DELAY.

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